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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C  
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS) NORFOLK,--ETC(U)  
JUL 78

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Summary of Meteorological Observations, Surface (SMOS) Norfolk, Virginia		5. TYPE OF REPORT & PERIOD COVERED Reference report 1945-1977
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) Naval Weather Service Detachment Asheville, N. C. 28801		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS Naval Weather Service Detachment Federal Building Asheville, N. C. 28801		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS Director, Naval Oceanography and Meteorology National Space Technology Laboratories NSTL Station, MS 39529		12. REPORT DATE July 1978
		13. NUMBER OF PAGES 358
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		15. SECURITY CLASS. (of this report) Unclassified
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		ACCESSION for NTIS White Section <input checked="" type="checkbox"/> DDC Buff Section <input type="checkbox"/> UNANNOUNCED <input type="checkbox"/> JUSTIFICATION
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		BY DISTRIBUTION/AVAILABILITY CODES Dist. Avail. and/or SPECIAL
18. SUPPLEMENTARY NOTES		A
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Climatology, surface wind, temperature, precipitation, ceiling, visibility, relative humidity, station pressure, extreme temperatures, sea level pressure, daily temperature, weather conditions, monthly climatology, Naval shore facility, coastal region, snow depth, cloud cover Norfolk, VA.		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This data report consists of a six part statistical summary of surface weather observations. The six parts are: Part A - Weather Conditions/ Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth, Part C - Surface Winds, Part D - Ceiling versus Visibility/Sky Cover, Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure		

STATION NO ON SUMMARY	STATION NAME	LONGITUDE	STATION ELEV (FT)	CALL SIGN	WMO N.W.E.F
13750	Norfolk, Virginia	76°17'W	15	KNGU	

## STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office (ops bldg)	NAS	1949	1960	36°57'N	76°17'W	21	Mercurial	24
2.	"	"	1960	1962	"	"	34	"	24
3.	"	"	1962	1966	"	"	32	"	24
4.	"	FWC	1966	1976	"	"	32	"	24
1a.	" (Bldg LP-1)	"	1966		"	"	36	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.		Atop control tower	*Selsyn	Double register	80'	1. Barometer, aneroid 2. Barograph
1a.	Installed 1955	Three eights mile due east of the operations building	UMQ-5	RD-108	6'	3. Semi-auto met sta (AN/GMQ-14B) 4. Ceiling light set (ML-121) 5. Cloud height set (AN/GMQ-13) 6. Transmissometer (AN/GMQ-10) 7. Weather radar (FPS-81) 8. RVR indicator (Model CJ002)
		* Date disassembled unknown				

## SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

DIRNAVOCEANMET ltr 3146 Ser 1032 dated 26 August 1977 (NOTAL) established the following policy for SMOS production and updating:

1. Ten years of data will be used as the standard period of record (POR).
2. All available data will be used for extreme values.
3. Summarize (update) every five years.

- a. Summarize the five year period (1973-1977) for all sections of the SMOS except extremes. The 5 year summary will be an intermediate SMOS to show secular trends. All available data through 1977 will be included for extreme values.

- b. The update in 1983 will include the POR 1973 through 1982, with all available data through 1982 for extreme values.

- c. The update in 1988 will be an intermediate SMOS (POR 1983-1987). All available data through 1987 will be included for extreme values.

- d. In 1993 the POR will be 1983 through 1992. All available data through 1992 will be used for extreme values.

Each standard POR (10 years) summary should be retained by individual stations along with the SMOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

DESCRIPTION: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

COMMENT: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during, the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the workload involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of ".0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Weather Service Detachment (NWS), Asheville, N. C. welcomes your comment and criticisms.



## PART A

## WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

1. By month and annual, all hours and years combined.
2. By month and annual, all hours and years combined, by wind direction.
3. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WEAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

**NOTE:** The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.



## PART A

## ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

This presentation is by month with annual totals, and is prepared with all years combined.

NOTE: A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than  $5/8$  mile.

Percentage Frequency of Wind Direction vs. Weather Conditions - This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and years combined. The main body of the Summary consists of weather conditions (horizontally) and wind directions (vertically) to 16 compass points (plus calm). Column totals show the number of observations. "% Total" indicates percentage frequency of occurrences.

# WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

JAN  
MONTH

73-77  
YEARS

NORFOLK, VIRGINIA  
STATION NAME

13750  
STATION

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	01		9.0		1.9		10.3	16.1	4.5	.6		18.1	155
	04		11.0	.6			11.0	18.7	5.8			22.6	155
	07		11.6		.6		12.3	25.2	7.7			27.7	155
	10		7.7	.6	1.9		10.3	20.6	21.9			37.4	155
	13		7.1		1.9		9.0	11.6	18.7			29.0	155
	16		7.1		3.9		11.0	10.3	14.8			23.2	155
	19		9.7		3.2		11.6	7.7	8.4	.6		16.1	155
	22		9.7	.6	2.6		12.3	10.3	7.7	.6		18.7	155
TOTALS			9.1	.2	2.0		11.0	15.1	11.2	.2		24.1	1240

# WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

FEB  
MONTH

73-77  
YEARS

NORFOLK, VIRGINIA  
STATION NAME

13750  
STATION

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	01		8.5				8.5	9.2	4.3			12.8	141
	04		5.7		1.4		6.4	8.5	6.4			14.9	141
	07		5.0	.7	.7		5.7	14.9	14.9			27.0	141
	10		7.8	.7	2.8		9.2	13.5	19.1	.7		32.6	141
	13		7.8		2.1		8.5	11.3	10.6	.7	.7	23.4	141
	16		9.2		2.6		11.3	12.8	12.8	.7	.7	26.2	141
	19	.7	5.7		1.4		7.1	7.8	5.0	.7	.7	14.2	141
	22	.7	6.4				6.4	9.9	3.5			13.5	141
TOTALS		.2	7.0	.2	1.4		7.9	11.0	9.6	.4	.3	20.6	1128



## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13750 STATION NORFOLK, VIRGINIA 73-77 YEARS MAR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAK	01		12.9		.6		12.9	11.0	3.2			13.5	155
	04		14.2				14.2	12.9	2.6			15.5	155
	07		14.8		.6		15.5	24.5	13.5			35.5	155
	10		15.5		1.3		16.8	18.7	21.9			38.1	155
	13	1.3	14.2		.6		14.8	13.5	19.4			31.0	155
	16		11.0		.6		11.6	16.1	16.1		.6	29.0	155
	19		7.7				7.7	13.5	9.0			20.0	155
	22		10.3		.6		10.3	11.6	5.8			16.8	155
TOTALS		.2	12.6		.5		13.0	15.2	11.4		.1	24.9	1240

## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13750  
STATIONNORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

APR  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	01	.7	6.0				6.0	4.7	6.7			10.0	150
	04		7.3				7.3	7.3	7.3			12.7	150
	07		6.0				6.0	8.7	23.3			28.7	150
	10		4.0				4.0	4.7	23.3			26.7	150
	13		7.3				7.3	1.3	14.7			16.0	150
	16	.7	4.7				4.7	2.0	12.7			14.7	150
	19	.7	6.0				6.0	4.7	13.3			17.3	150
	22		4.7				4.7	3.3	6.0			8.7	150
TOTALS		.3	5.8				5.8	4.6	13.4			16.9	1200



## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

MAY  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	01	.6	7.1				7.1	13.5	12.3			22.6	155
	04		5.2				5.2	18.7	12.9			26.5	155
	07		6.5				6.5	25.2	39.4			54.2	155
	10		6.5				6.5	9.7	29.7			36.1	155
	13	.6	7.1				7.1	4.5	31.6			34.2	155
	16	.6	5.2				5.2	5.2	23.2			27.1	155
	19	3.2	9.0				9.0	9.0	23.2			29.0	155
	22	.6	7.7				7.7	11.6	14.2			23.2	155
TOTALS		.7	6.8				6.8	12.2	23.3			31.6	1240

## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13750 STATION      NORFOLK, VIRGINIA      73-77      YEARS      JUN      MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	01	.7	4.7				4.7	8.0	17.3			20.7	150
	04		4.7				4.7	16.7	16.0			25.3	150
	07	.7	7.3				7.3	20.0	48.7			55.3	150
	10	.7	4.7				4.7	2.7	36.0			38.7	150
	13	1.3	6.7				6.7	4.0	35.3			38.7	150
	16	2.7	6.7				8.7	2.0	29.3			30.7	150
	19	.7	8.0				6.0	4.0	31.3			34.7	150
	22	1.3	3.3				3.3	4.7	18.0			22.0	150
TOTALS		1.0	6.0				6.0	7.8	29.0			33.3	1200

## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13750  
STATIONNORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

JUL  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	01	2.6	3.9				3.9	3.9	31.0			32.3	155
	04	1.3	4.5				4.5	12.3	32.9			38.7	155
	07	.6	3.2				3.2	22.6	62.6			68.4	155
	10	1.3	3.2				3.2	3.2	55.5			56.8	155
	13	.6	2.6				2.6	2.6	50.3			51.6	155
	16	3.9	6.5				6.5	1.3	51.0			51.6	155
	19	3.2	7.7				7.7	3.9	50.3			51.6	155
	22	5.2	10.3				10.3	3.9	36.8			39.7	155
TOTALS		2.3	5.2				5.2	6.7	46.3			48.7	1240



## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13750  
STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

AUG  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	01	.6	5.2				5.2	10.3	35.5			41.3	155
	04	.6	2.6				2.6	21.3	36.8			43.9	155
	07		2.6				2.6	31.6	55.5			66.5	155
	10		5.2				5.2	7.1	58.1			58.7	155
	13	.6	6.5				6.5	1.9	49.0			49.7	155
	16	4.5	7.1				7.1	1.9	44.5			45.8	155
	19	1.3	7.7				7.7	5.2	47.7			50.3	155
	22	1.3	7.1				7.1	3.9	34.8			36.8	155
TOTALS		1.1	5.3				5.3	10.4	45.2			49.1	1240

## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

SEP  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	01	1.3	4.7				4.7	13.3	18.0			26.7	150
	04		4.7				4.7	18.7	23.3			33.3	150
	07		7.3				7.3	25.3	43.3			52.7	150
	10		6.7				6.7	4.0	38.7			42.7	150
	13		9.3				9.3	4.7	37.3			42.0	150
	16	1.3	8.0				8.0	5.3	33.3			38.7	150
	19	2.7	8.0				8.0	7.3	30.0			34.0	150
	22	.7	4.7				4.7	8.0	24.0			29.3	150
TOTALS		.8	6.7				6.7	10.8	31.0			37.4	1200



## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13750  
STATIONNORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

OCT  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	01	0.6	7.7				7.7	9.7	8.4			16.1	155
	04	0.6	12.9				12.9	18.1	7.7			22.6	155
	07		11.6				11.6	25.2	21.3			37.4	155
	10		9.0				9.0	7.7	27.1			32.9	155
	13		5.8				5.8	7.1	16.8			21.9	155
	16	1.3	7.1				7.1	7.1	14.2			20.6	155
	19		9.7				9.7	4.5	14.2			18.7	155
	22		7.1				7.1	6.5	9.7			16.1	155
TOTALS		0.3	8.9				8.9	10.7	14.9			23.3	1240

## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13750

STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

NOV

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	01		6.0				6.0	9.3	5.3			13.3	150
	04		6.0				6.0	13.3	5.3			16.7	150
	07		4.7				4.7	20.0	17.3			30.7	150
	10		8.0				8.0	14.0	25.3			37.3	150
	13		7.3				7.3	10.7	19.3			28.0	150
	16		6.0				6.0	9.3	13.3			22.0	150
	19		6.7				6.7	10.7	9.3			19.3	150
	22		5.3				5.3	10.0	4.7			14.0	150
TOTALS			6.3				6.3	12.2	12.5			22.7	1200

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## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13750  
STATIONNORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

DEC  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	01		12.9		.6		12.9	14.2	2.6			16.8	155
	04		11.6				11.6	14.8	3.9			18.1	155
	07		14.2		.6		14.2	22.6	7.7			27.1	155
	10		12.3		1.9		13.5	17.4	14.2			30.3	155
	13		10.3		1.9		12.3	14.8	11.0			24.5	155
	16		10.3		1.3		11.6	12.9	6.5			18.7	155
	19		14.2				14.2	16.8	1.9			18.1	155
	22		11.6		.6		11.6	14.2	1.9			15.5	155
TOTALS			12.2		.9		12.7	16.0	6.2			21.1	1240



## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13750  
STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

ALL  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL		9.1	.2	2.0		11.0	15.1	11.2	.2		24.1	1240
FEB		.2	7.0	.2	1.4		7.9	11.0	9.6	.4	.3	20.6	1128
MAR		.2	12.6		.5		13.0	15.2	11.4		.1	24.9	1240
APR		.3	5.8				5.8	4.6	13.4			16.9	1200
MAY		.7	6.8				6.8	12.2	23.3			31.6	1240
JUN		1.0	6.0				6.0	7.8	29.0			33.3	1200
JUL		2.3	5.2				5.2	6.7	46.3			48.7	1240
AUG		1.1	5.5				5.5	10.4	45.2			49.1	1240
SEP		.8	6.7				6.7	10.8	31.0			37.4	1200
OCT		.3	8.9				8.9	10.7	14.9			23.3	1240
NOV			6.3				6.3	12.2	12.5			22.7	1200
DEC			12.2		.9		12.7	16.0	6.2			21.1	1240
TOTALS		.6	7.7	.0	.4		8.0	11.1	21.2	.0	.0	29.5	14608

# WEATHER CONDITIONS ATMOSPHERIC PHENOMENA

5701 WEATHER CONDITIONS JAN 68

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

49-77

YEARS

ALL  
MONTH

## PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY	1.2	40.9	2.6	12.3	.1	46.2	39.9	57.2	1.4		67.1	899
FEB		1.7	44.0	1.0	10.4		46.1	40.8	58.7	.5	.2	67.6	819
MAR		5.3	46.5	.4	6.1	.3	47.9	37.4	55.2	.3	.2	66.1	898
APR		8.4	45.9		.6	.5	45.9	33.3	61.0		.3	66.2	870
MAY		15.2	45.4			.2	45.4	41.3	67.6		.2	73.3	899
JUN		18.0	40.2			.2	40.2	37.2	72.6			76.4	870
JUL		26.0	46.7				46.7	35.9	73.9		.2	75.5	899
AUG		21.5	44.0				44.0	42.6	77.9		.4	80.2	899
SEP		8.2	35.3				35.3	40.0	65.9			71.4	870
OCT		3.4	36.0		.1		36.0	44.4	61.3			67.4	899
NOV		1.8	37.9		1.6	.1	38.2	38.8	57.7			64.6	868
DEC		.9	36.5	.3	6.9		39.6	39.5	56.0	.3		65.3	899
TOTALS		9.3	41.6	.4	3.2	.1	42.8	39.3	63.7	.2	.1	70.1	10589



PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

13750

NORFOLK, VIRGINIA

STATION NAME

JAN 73 - DEC 77

YEARS

JANUARY

MONTH

ALL

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	11.2		3.0		.7	7.5			24.6	3.7	6.0	.7		59.0
NNE	14.9		2.0	1.0		5.9			9.9	5.9	12.9	2.0		58.4
NE	7.7					2.6			2.6	7.7	5.1			82.1
ENE	8.1								10.8	2.7	13.5			70.3
E	9.7					3.2			3.2	3.2	6.5			80.6
ESE	23.5								17.6		5.9			64.7
SE	17.2					6.9			6.9	6.9	20.7			62.1
SSE	6.7	4.4	2.2						6.7	11.1	11.1			68.9
S	6.4	6.4							15.4	7.7	19.2			59.0
SSW	2.9	1.0	1.0						5.7	4.8	11.4			77.1
SW	4.1	2.7				1.4			5.5	4.1	11.0			76.7
WSW	5.6	1.1	1.1						6.7	2.2	12.2			76.7
W	6.2	.8	.8						10.9	1.6	8.5			78.3
WNW	3.7								7.4		9.3			79.6
NW	3.3				1.6	1.6			4.9	1.6	4.9			85.2
NNW	3.3	1.1			2.2				8.7	1.1	8.7			81.5
VARIABLE														
CALM	8.0								16.0	8.0	14.4			60.0
TOTAL	92	13	10	3	2	24			134	53	133	3		879
% TOTAL	7.4	1.0	.8	.2	.2	1.9			10.8	4.3	10.7	.2		70.9

TOTAL NUMBER OF OBSERVATIONS

1,240

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

19750 STATION NAME NORFOLK, VIRGINIA JAN 73 - DEC 77 MONTH FEBRUARY ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET "SHOWERS ICE CRYSTALS	SNOW "GRAINS "PELLETS "SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	6.1		4.1			2.4			17.1	2.4	8.1	3.7		69.1
NNE	15.9			2.4	2.4	7.3			17.1	4.9	6.1			62.2
NE	11.1				2.8	2.8			13.9	2.8	11.1			66.7
ENE	12.1								12.1	9.1	6.1			69.7
E	8.8								17.6		14.7			64.7
ESE											10.0			90.0
SE		8.1						3.4	8.1		3.4			61.1
SSE	10.2	2.0								2.0	2.0			85.7
S	7.0	1.7							11.3	2.6	7.8			74.8
SSW	2.2	.7							3.7	1.5	9.0			85.1
SW	2.5								5.1	3.8	11.4			79.7
WSW	3.1				1.6	1.6			6.3	1.6	17.2			70.3
W	1.3	1.3	1.3			1.3			3.8	1.3	10.3			82.1
WNW		2.1	2.1			2.1			8.3		8.3			81.3
NW	1.9	1.9	1.9						5.8	1.9	9.6			84.6
NNW	4.3	1.3							1.5	3.0	9.0			83.6
VARIABLE														
CALM									5.7	4.6	12.6			79.3
TOTAL	60	11	8	2	5	13		2	95	29	105	4		866
% TOTAL	5.3	1.0	.7	.2	.4	1.2		.2	8.4	2.6	9.3	.4		76.8

TOTAL NUMBER OF OBSERVATIONS 1,128

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

13750 STATION NAME NORFOLK, VIRGINIA JAN 73 - DEC 77 YEARS MONTH MARCH ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	10.1	.8	9.2			.8			22.7		8.4			62.2
NNE	8.2	4.1	13.7						26.0	4.1	9.6			54.8
NE	10.3	2.6	6.4		1.3	1.3			29.5	3.8	16.7			51.3
ENE	13.2		2.9			1.5			16.2	1.5	19.1			60.3
E	14.5	2.9	2.9			1.4			26.1	1.4	20.3			47.8
ESE	17.9								17.9		17.9			60.7
SE	18.9	10.8	2.7						24.3	8.1	8.1			56.8
SSE	9.1	1.5				1.5		1.5	10.6		6.1			80.3
S	6.8	7.6	.8						6.8	1.7	10.2			72.9
SSW	2.7	3.6							1.8	.9	10.7			83.9
SW	1.2	3.6							1.2	2.4	20.5			73.5
WSW	1.6	3.3							6.6		13.1		1.6	78.7
W	2.3	1.1	1.1					1.1	6.8		2.3			88.6
WNW	3.0								1.5		1.5			95.5
NW	6.1								5.4	2.7	2.7			89.2
NNW	2.0	4.0				2.0			8.0		12.0			76.0
VARIABLE														
CALM	4.7		1.2						20.9	8.1	10.5			62.8
TOTAL	88	34	34		1	6		2	165	24	137		1	875
% TOTAL	7.1	2.7	2.7		.1	.5		.2	13.3	1.9	11.0		.1	70.6

TOTAL NUMBER OF OBSERVATIONS 1,240



# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

JAN 73 - DEC 77  
YEARS

APRIL  
MONTH

ALL  
HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	5.1	3.8	1.3					1.3	2.6	1.3	19.2			70.5
NNE			4.2						10.4	4.2	8.3			77.1
NE	3.8	1.9	1.9						3.8	1.9	20.8			69.8
ENE	7.8	3.9							7.8		15.7			70.6
E	5.1	1.7							11.9	1.7	23.7			61.0
ESE	3.0	3.0							3.0	3.0	6.1			84.8
SE	4.3	4.3							2.1	2.1	12.8			80.9
SSE	1.5								1.8	1.8	7.1			91.1
S	3.1	3.9						.8	3.1	3.1	9.4			82.8
SSW	.6	1.3							2.5	.6	12.1			84.7
SW	2.8	5.6						1.4	1.4	2.8	18.3			71.8
WSW		3.5							5.3	5.3	21.1			75.4
W		3.5									8.0			89.4
WNW	4.3								2.1		6.4			85.1
NW	7.2									1.4	7.2			87.0
NNW	4.8	4.8							1.6		9.7			82.3
VARIABLE														
CALM	1.4								3.8	7.0	23.9			10.4
TOTAL	35	30	4					3	31	24	160			953
% TOTAL	2.9	2.5	.3					.3	2.6	2.0	13.3			79.4

TOTAL NUMBER OF OBSERVATIONS 1,200

# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

13750 STATION NORFOLK, VIRGINIA JAN 73 - DEC 77 YEARS MONTH MAY ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	4.3	2.9						1.4	8.6	4.3	25.7			60.0
NNE	2.9		2.2						14.5	2.9	39.1			49.3
NE	4.2	1.4	1.4					1.4	13.9	6.9	36.1			54.2
ENE	5.7	1.9	1.9					2.8	16.0	3.8	26.4			55.7
E	5.4	5.4							8.6	3.2	19.4			66.7
ESE	7.7								5.1	2.6	23.1			64.1
SE	6.5								12.7	4.2	11.3			71.8
SSE	5.0	5.0							5.0	3.3	11.7			75.0
S	4.1	4.8						.7	8.2	4.8	24.0			60.3
SSW	1.4	2.2							2.2	1.4	23.7			71.9
SW	2.8								1.4	2.8	19.7			77.5
WSW	1.6	3.2						1.6	1.6	1.6	30.6			66.1
W		4.1								2.0	14.3			77.6
WNW		2.7						2.7	5.4	2.7	21.6			70.3
NW	6.5	3.2						3.2	12.9	3.2	12.9			64.5
NNW		2.9	2.9						11.8	2.9	29.4			61.8
VARIABLE														
CALM	3.2	1.1	1.1						11.0	11.0	16.5			63.7
TOTAL	46	31	7					9	102	49	286			804
% TOTAL	3.7	2.5	.6					.7	8.2	4.0	23.1			64.8

TOTAL NUMBER OF OBSERVATIONS 1,240

# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

13750 STATION NAME NORFOLK, VIRGINIA JAN 73 - DEC 77 YEARS MONTH JUNE ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	1.7	5.0						1.7	11.7	1.7	35.0			50.0
NNE	6.3	3.1	1.6					1.6	10.9	1.6	23.4			64.1
NE	3.6	1.8							3.6		25.5			67.3
ENE	12.2	3.7	1.2					1.2	4.9	2.4	35.4			47.6
E	2.3	1.2						1.2	1.2	4.7	31.4			65.1
ESE	5.0	2.3							2.5	2.5	25.0			65.0
SE		2.0						2.0	2.0	2.0	22.4			73.5
SSE	1.9								3.8	1.9	17.0			79.2
S		6.5						1.4	2.9	5.1	29.0			61.6
SSW	.7	2.7						2.0	.7	5.4	28.9			66.4
SW	1.0	1.0							1.0	3.0	36.4			61.6
WSW		1.5						1.5		10.4	38.8			55.2
W		4.8	1.6					1.6		3.2	33.9			59.7
WNW		3.3									20.0			76.7
NW		3.6	10.7						10.7		17.9			67.9
NNW	2.9	2.9	11.4						11.8		8.8			73.5
VARIABLE														
CALM	1.0	2.9							6.7	0.6	27.9			61.5
TOTAL	26	36	10					12	45	48	345			757
% TOTAL	2.2	3.0	.8					1.0	3.6	4.0	28.8			63.1

TOTAL NUMBER OF OBSERVATIONS 1,200



PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

13750 STATION NORFOLK, VIRGINIA JAN 73 - DEC 77 YEARS MONTH JULY ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N		1.5						1.5			50.8			47.7
NNE	1.7	1.7							3.4	3.4	33.9			57.6
NE								1.5	3.0	6.0	28.4			61.2
ENE									4.0	1.3	36.0			61.3
E	1.9	1.9						1.9	3.8	1.9	41.5			52.8
ESE		5.0								5.0	35.0			55.0
SE	2.6	10.5						5.3	2.6	2.6	52.6			44.7
SSE	1.4	6.8						2.7	1.4	2.7	36.5			59.5
S	.8	6.7						2.5		5.0	44.2			48.3
SSW		1.1						.6	.6	4.5	48.9			48.9
SW		8.7						2.4	1.6	9.5	53.2			37.3
WSW		6.5						5.4	2.2	6.5	61.3			30.1
W	1.4	8.5						2.8	4.2	7.0	64.8			25.4
WNW		8.3						8.3			33.3			62.5
NW	9.1							9.1	4.5		36.4			54.5
NNW		4.2						4.2		4.2	62.5			29.2
VARIABLE														
CALM	1.8	5.3						1.3	3.8	6.0	38.3			55.6
TOTAL	9	56						29	25	58	566			597
% TOTAL	.7	4.5						2.3	2.0	4.7	45.6			48.1

TOTAL NUMBER OF OBSERVATIONS 1,240

# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

13750 STATION NORFOLK, VIRGINIA JAN 73 - DEC 77 MONTH ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	2.8	4.2							2.8	2.8	41.7			51.4
NNE	1.9								1.9	5.8	30.8			63.5
NE	3.9	2.6							2.6		44.2			50.6
ENE	4.8	2.4							3.6	3.6	38.6			56.6
E	1.2	4.7						1.2	1.2	8.1	45.3			43.0
ESE		9.1							4.5		36.4			54.5
SE	2.0	2.0						2.0		2.0	46.9			49.0
SSE		8.2							2.0	14.3	53.1			36.7
S	8.8	6.0						1.5	3.0	11.3	45.9			45.1
SSW		2.8						.6	2.8	7.3	42.7			51.1
SW		5.8						3.9	1.9	8.7	45.6			47.6
WSW		3.5						1.2		5.8	52.3			45.3
W		6.5							2.2	4.3	47.8			41.3
WNW	6.3							6.3		6.3	37.5			50.0
NW		3.0						3.0		20.0	60.0			35.0
NNW	7.1	3.6						3.6	7.1	3.6	46.4			39.3
VARIABLE														
CALM	1.7	4.3							4.3	17.9	43.6			42.9
TOTAL	17	51						14	31	98	551			591
% TOTAL	1.4	4.1						1.1	2.5	7.9	44.4			47.7

TOTAL NUMBER OF OBSERVATIONS 1,240

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

13750 STATION NAME NORFOLK, VIRGINIA JAN 73 - DEC 77 YEARS MONTH SEPTEMBER ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	4.4	2.2	1.1					1.1	7.7	1.1	20.9			70.3
NNE	7.1	2.4	2.4						9.4	1.2	22.4			63.5
NE	10.7	5.4						1.8	10.7		23.2			60.7
ENE	7.8	2.2	1.1						10.0	1.1	35.6			52.2
E	6.0	4.0							6.0	1.0	36.0			57.0
ESE	8.8	8.8	2.9					2.9	11.8	2.9	32.4			50.0
SE	10.3	2.6							7.7	2.6	30.8			53.8
SSE	1.6	3.1							6.3	9.4	17.2			70.3
S	8.8	3.0						.8	3.0	9.1	22.0			69.7
SSW	.9	.9						1.9	3.8	5.7	34.0			59.4
SW									2.7	8.2	42.5			54.8
WSW		3.4							1.7		37.9			55.2
W									3.6	7.1	42.9			53.6
WNW	5.6	5.6							11.1		33.3			55.6
NW	3.7							3.7	7.4	3.7	18.5			70.4
NNW	2.0	5.9	2.0					3.9	3.9		19.6			68.6
VARIABLE														
CALM														
TOTAL	45	30	6					9	71	59	362			726
% TOTAL	3.8	2.5	.5					.8	5.9	4.9	30.2			60.5

TOTAL NUMBER OF OBSERVATIONS 1,200



# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

13750 STATION NORFOLK, VIRGINIA JAN 73 - DEC 77 YEARS OCTOBER MONTH ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	5.8	.7	5.8					.7	15.9	.7	14.5			68.1
NNE	10.8		1.8						12.6		11.7			70.3
NE	3.3	1.1							3.3	5.4	12.0			79.3
ENE										3.3	9.8			86.9
E		1.5	6.2						7.7	1.5	6.2			84.6
ESE	30.4	8.7							21.7		13.0			47.8
SE	9.7	3.2							19.4		16.1			61.3
SSE	8.7	6.5	2.2					2.2	8.7		13.0			69.6
S	14.1	8.2						1.2	7.1	8.2	24.7			50.6
SSW	2.6	1.3	2.6					1.3	3.9	5.3	28.9			63.2
SW	2.7	2.7							2.7	1.4	10.8			81.1
WSW	1.5	1.5	1.5						1.5		16.9			78.5
W	3.3	1.6								1.6	8.2			85.2
WNW	9.5	4.8							2.4	4.8	16.7			66.7
NW			1.8							5.4	8.9			85.7
NNW	2.4	2.4	1.2						3.7	6.1	8.5			79.3
VARIABLE														
CALM	1.3	1.8							6.1	12.9	23.5			65.9
TOTAL	64	26	20					4	84	49	185			897
% TOTAL	5.2	2.1	1.6					.3	6.8	4.0	14.9			72.3

TOTAL NUMBER OF OBSERVATIONS 1,240

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

13730

NORFOLK, VIRGINIA

STATION NAME

JAN 73 - DEC 77

YEARS

NOVEMBER

MONTH

ALL

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	8.3	1.8	3.7						20.2		5.5			69.7
NNE	14.8		1.6						14.8		11.5			65.6
NE	10.5	1.8	3.5						15.8		8.8			70.2
ENE	4.9		1.6						24.6	1.6	21.3			54.1
E	8.8		2.9						17.6		14.7			61.8
ESE									14.3	14.3	14.3			57.1
SE	5.3	5.3							15.8	5.3	31.6			52.6
SSE		2.2							10.9	6.5	19.6			65.2
S	2.0	1.0	1.0						6.9	1.0	15.7			77.5
SSW	2.4	1.6							9.6	2.4	15.4			72.4
SW	2.0	1.0							5.9	2.9	18.6			73.5
WSW	1.3								5.0	1.3	15.0			77.5
W	3.8	1.9	1.0						4.8	1.0	5.8			85.6
WNW	4.3								6.4		6.4			83.0
NW	1.7										5.1			93.2
NNW	2.6		2.6						11.7		2.6			84.4
VARIABLE														
CALM	3.6								4.5	4.5	13.5			74.9
TOTAL	52	11	13						121	25	146			892
% TOTAL	4.3	.9	1.1						10.1	2.1	12.2			74.3

TOTAL NUMBER OF OBSERVATIONS

1,200

# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

13750 NORFOLK, VIRGINIA STATION NAME JAN 73 - DEC 77 YEARS DECEMBER MONTH ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	5.7		4.5			2.3			20.5		8.0			67.0
NNE	24.0	1.0	1.0		1.0	2.1			24.0	3.1	5.2			63.3
NE	16.7	1.2							11.9	2.4	4.8			73.8
ENE	20.5	2.3	4.5						18.2	2.3	9.1			61.4
E	33.3		3.0						24.2	6.1	15.2			45.3
ESE	18.8								18.8	12.3	31.3			37.5
SE	20.0								16.0	4.0				72.0
SSE	16.7								8.3	2.8	8.3			72.2
S	7.9	2.6	1.3						11.8	1.3	7.9			75.0
SSW	4.8								3.4	1.4	6.1			89.1
SW	2.5	1.2							13.6	2.3	7.4			75.3
WSW	11.9	6.0	1.3						10.4	6.0	6.0			71.6
W	2.0								8.0	2.0	4.0			86.0
WNW	5.1	2.6	1.3			2.6			13.4					82.1
NW	1.6		1.6			1.6			4.8					93.7
NNW	11.4	1.3	2.5			2.5			20.3		2.5			75.9
VARIABLE														
CALM														
TOTAL	125	13	14		1	10			168	30	73			929
% TOTAL	10.1	1.0	1.1		.1	.8			13.5	2.4	5.9			74.9

TOTAL NUMBER OF OBSERVATIONS 1,240



PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

13750

NORFOLK, VIRGINIA

STATION NAME

JAN 73 - DEC 77

YEARS

ALL

MONTH

ALL

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	6.4	1.6	3.3		.2	1.4		.5	14.6	1.5	17.2	.2		63.3
NNE	10.2	1.0	2.6	.3	.3	1.6		.1	13.5	3.0	16.8	.6		62.4
NE	7.0	1.7	1.2		.3	.4		.4	9.8	3.1	20.4			65.0
ENE	7.5	1.5	1.1			.1		.5	10.4	2.5	25.2			60.3
E	6.5	2.6	1.1			.3		.4	9.3	3.0	25.7			60.2
ESE	9.7	3.5	.3					.3	9.0	2.8	21.8			61.2
SE	7.4	3.8	.2			.4		1.3	8.7	3.2	21.7			64.3
SSE	4.8	3.4	.3			.2		.6	5.3	4.5	17.4			71.3
S	3.9	4.9	.2					.8	5.8	5.2	22.5			64.6
SSW	1.6	1.6	.2			.1		.5	3.2	3.4	23.7			70.5
SW	1.6	3.0				.1		.8	3.6	4.6	26.6			65.6
WSW	2.2	2.8	.4		.1	.1		.9	3.5	3.5	28.0		.1	63.9
W	2.1	2.5	.5	.1		.1		.4	4.4	2.2	17.2			74.5
WNW	3.5	2.0	.4			.6		.6	5.9	.8	11.2			78.5
NW	3.4	.8	1.1		.2	.4		1.0	4.0	2.5	10.7			81.5
NNW	4.0	2.5	1.6			.7		.6	7.9	1.6	12.9			74.9
VARIABLE														
CALM	3.0	1.4	.2	.1				.3	1.4	8.9	13.4			62.6
TOTAL	659	342	126	5	9	53		84	1072	546	3049	7	1	9766
% TOTAL	4.5	2.3	.9	.0	.1	.4		.6	7.3	3.7	20.9	.0	.0	66.9

TOTAL NUMBER OF OBSERVATIONS

14,608

NAVWEASERVCOM

NWSD, Federal Building  
Asheville, N. C.

## PART B      PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

### PRECIPITATION

DERIVED FROM DAILY OBSERVATIONS

### SNOWFALL\*

DERIVED FROM DAILY OBSERVATIONS

### SNOW DEPTH

DERIVED FROM DAILY OBSERVATIONS

1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.
2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

#### Air Force Stations

From beginning of record thru 1945

Jan 46-May 57

Jun 57-present

Snow depth at 0800 LST

Snow depth at 1230 GCT

Snow depth at 1200 GCT

#### U. S. Navy and Weather Bureau Stations

From beginning of record thru Jun 52

Jul 52-May 57

Jun 57-present

Snow depth at 0030 GCT

Snow depth at 1230 GCT

Snow depth at 1200 GCT

\* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956,

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
PRECIPITATION  
(FROM DAILY OBSERVATIONS)

13750 STATION NORFOLK, VIRGINIA 46-77 YEARS

5722 Daily Amounts J 1969

PRECIP. SNOWFALL SNOW- DEPTH	AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00	MEAN			GREATEST	LEAST	
JAN	53.3	15.4	2.5	5.7	4.6	6.6	5.7	4.7	1.5	.1				31.3	961	2.82	4.63	1.38	
FEB	51.2	15.1	2.0	6.5	3.2	7.4	7.1	5.7	1.9					33.7	848	3.10	5.43	1.42	
MAR	52.6	13.8	2.9	5.1	4.1	8.3	6.8	5.2	1.4					33.7	930	3.09	5.46	1.31	
APR	54.0	15.0	1.6	7.6	4.9	7.2	4.6	4.0	1.3					31.0	960	2.50	5.53	.48	
MAY	53.2	15.1	2.5	5.9	3.0	6.7	7.2	4.2	2.0	.1				31.7	992	3.22	7.43	.71	
JUN	59.1	12.7	2.2	5.4	3.2	6.1	4.5	4.2	2.3	.2	.1			28.2	930	3.23	9.61	.39	
JUL	53.3	13.7	2.6	5.1	4.3	6.3	4.8	6.0	2.9	.9	.1			33.0	930	4.71	12.17	.98	
AUG	56.4	12.3	2.0	5.0	4.1	7.3	4.8	4.0	3.3	.7	.2			31.3	961	4.44	10.88	.94	
SEP	64.2	11.1	1.6	5.1	2.7	4.4	3.2	5.0	1.8	.8	.1			24.7	960	3.68	10.34	.53	
OCT	63.8	13.3	1.2	4.4	3.1	4.5	4.7	2.5	2.0	.5				22.9	961	2.72	9.54	.21	
NOV	60.3	14.6	2.7	3.4	3.2	4.1	5.9	3.6	2.2					25.1	900	2.64	6.30	.39	
DEC	60.8	12.4	2.1	3.5	2.9	6.1	5.8	4.4	1.8					26.8	992	2.85	6.59	.77	
ANNUAL	56.8	13.7	2.2	5.2	3.6	6.2	5.4	4.5	2.0	.3	.0			29.4	11325	39.00			



# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOWFALL  
(FROM DAILY OBSERVATIONS)

13750 STATION NORFOLK, VIRGINIA 46-77 YEARS

21193

5722 Daily Amounts Jan. 1969

PRECIP. SNOWFALL SNOW DEPTH	NONE	TRACE	0.1-0.4	0.5-1.4	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120	PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
																	MEAN	GREATEST	LEAST
JAN	88.5	7.5	1.3	1.2	.5	.2	.3	.3	.1	.1	.1	.1	.1	.1	4.0	930	2.1	12.0	.0
FEB	89.2	7.8	.7	1.2	.5	.2	.2	.1	.1	.1	.1	.1	.1	.1	3.1	848	1.5	8.1	.0
MAR	94.4	4.0	.5	.3	.4	.2	.1	.1	.1	.1	.1	.1	.1	.1	1.6	930	.8	9.9	.0
APR	99.4	.5	.1												.1	960	TRACE	.2	.0
MAY	100.0															992	.0	.0	.0
JUN	100.0															960	.0	.0	.0
JUL	100.0															899	.0	.0	.0
AUG	100.0															992	.0	.0	.0
SEP	100.0															960	.0	.0	.0
OCT	99.9	.1														961	TRACE	TRACE	.0
NOV	98.6	1.0	.2	.2											.4	900	.1	1.8	.0
DEC	93.3	5.4	.4	.2	.2	.1	.2	.1	.1	.1	.1	.1	.1	.1	1.2	992	.8	15.6	.0
ANNUAL	96.9	2.2	.3	.3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.9	11324	5.3		

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

13730 STATION NORFOLK, VIRGINIA 48-77 YEARS

5722 Daily Amounts Jan. 1969

AMOUNTS (INCHES)															PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP.	NONE	TRACE	.01	.02-.05	.06-10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00	MEAN			GREATEST	LEAST	
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3	5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120						
JAN	93.2	3.0	1.5	.7	.3	.3	.8	.1							3.8	868			
FEB	95.2	1.5	1.3	.9	.5	.6									3.3	791			
MAR	98.6	.7	.1	.3		.1	.1								.7	868			
APR	100.0															870			
MAY	100.0															899			
JUN	100.0															870			
JUL	100.0															899			
AUG	100.0															899			
SEP	100.0															870			
OCT	100.0															899			
NOV	99.9		.1												.1	870			
DEC	97.5	1.1	.3	.3	.1		.6								1.4	930			
ANNUAL	98.7	.5	.3	.2	.1	.1	.1	.0							.8	10533			

# EXTREME VALUES

PRECIPITATION  
(FROM DAILY OBSERVATIONS)

13750 NORFOLK, VIRGINIA

46-77

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
46	.45	1.21	.67	.83	.84	.66	3.07	2.52	2.23	.87	1.35	.32	
47			.92	2.16	1.72			2.18	2.63	.93	2.44	1.43	
48	1.44	1.43	.64	1.08	2.79	1.19		2.15	.64	.93	1.77	1.37	
49	.51	1.17	.64	.55	1.46	.63	1.28	2.03	1.78	.98	1.98	.87	2.15
50	.81	.41		.59	1.08	1.04	2.98	2.04	1.50	.49	.48	1.03	
51	.60		.71	.55	1.12	1.41	.58	1.43	1.15	.51	1.03	.40	
52	1.27	1.01	1.74	.54	1.00	.38	1.83	1.43	.92	.63	2.47	1.02	2.47
53	.30	.84	.49	1.60	.53	.93	1.10	5.80	2.40	.66	.34	.74	5.80
54	1.00	2.13	1.76	1.61	.81	.35	1.37	.49	.76	.69	.53	.60	2.13
55	.71	.75	1.05	.66	.48	1.06	.93	2.07	3.11	.52	1.48	.43	3.11
56	.52	.93	1.48	1.14	.64	1.00	4.08	2.55	1.28	3.03	.57	.51	4.08
57	.87	.98	.83	1.30	.59	1.18	.62	1.25	.92	1.01	1.15	2.18	2.18
58	.85	1.13	1.88	.95	2.04	1.60	1.04	1.69	.40	3.31	1.03	1.32	3.31
59	.81	.74	.64	1.69	.43	1.44	.79	.56	3.91	2.60	.64	.85	3.91
60	1.23	1.17	.58	.71	1.04	.75	3.14	1.74	3.82	1.12	.49	1.46	2.93
61	1.30	1.35	.84	1.00	1.83	1.71	1.32	2.93	.62	1.12	1.07	.66	2.71
62	1.19	.53	1.15	.93	.74	1.35	1.81	2.71	1.61	2.40	1.48	.95	5.47
63	1.02	1.17	.79	.64	.53	3.21	1.30	.62	5.47	.18	.51	1.07	6.43
64	.84	.84	.83	1.04	.33	1.71	.98	6.43	3.76	2.23	.23	.55	1.80
65	.52	.84	.73	.51	.85	1.80	.59	1.34	.65	.88	.70	.97	2.52
66	.83	.92	.62	.17	1.15	.61	2.52	1.31	.73	.32	.59	1.25	2.55
67	2.55	1.03	.58	.41	.92	1.44	1.74	1.11	1.51	.37	.86	.61	2.16
68	1.05	.80	1.78	2.16	1.59	.82	.98	.36	1.00	1.37	.86	.82	1.52
69	1.12	.89	.92	.93	2.24	1.07	3.31	1.05	1.01	1.30	.81	1.38	3.89
70	.66	1.52	.51	1.03	.87	1.22	.87	.47	.66	.09	.57	.39	4.72
71	1.20	.85	1.07	1.00	.89	.52	.72	.95	3.89	3.03	1.76	1.63	6.49
72	1.64	1.67	1.16	1.31	1.69	3.21	1.43	.71	4.72	1.48	1.23	1.87	2.67
73	1.19	1.47	1.58	.75	.71	2.67	6.49	2.71	.41	1.07	.25	1.07	2.65
74	.81	1.40	1.00	.75	1.02	1.94	1.82	2.67	2.13	1.01	.67	.99	
75	1.06	.99	1.20	2.23	.50	1.37	2.65	.52	.83	.96			
MEAN													
S. D.													
TOTAL OBS.													

NAVWEASERVCOM

5723 Extreme Values Jan 1969



**PRECIPITATION**  
(FROM DAILY OBSERVATIONS)

46-77

YEARS

24 HOUR AMOUNTS IN INCHES

[illegible]

NAVWEASERVCOM

46-77

**PRECIPITATION**  
(FROM DAILY OBSERVATIONS)

YEARS

24 HOUR AMOUNTS IN INCHES  
/BASED ON LESS THAN FULL MONTHS/

[illegible]

# EXTREME VALUES

SNOWFALL  
(FROM DAILY OBSERVATIONS)

13750 STATION NORFOLK, VIRGINIA 46-77 YEARS

## 24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
46													
47	.0	3.5	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	
48		2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	
49	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
50	.0	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	
51	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	
52	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE
53	TRACE	.0	.5	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	.5
54	.2	.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE
55	3.0	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	1.6
56	TRACE	.0	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	3.0
57	1.1	TRACE	.0	TRACE	.0	.0	.0	.0	.0	TRACE	.0	TRACE	TRACE
58	2.1	.8	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	1.1
59	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	9.1
60	TRACE	4.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE
61	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	1.3
62	3.2	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2
63	TRACE	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	.6
64	TRACE	2.0	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.0	2.0
65	3.9	8.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	8.0
66	6.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	.5	6.0
67	4.5	5.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.2	3.6	5.0
68	1.5	1.4	2.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	2.0
69	TRACE	.1	2.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	2.0
70	1.0	3.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	3.0
71	.6	.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	1.0
72	.0	TRACE	TRACE	.2	.0	.0	.0	.0	.0	.0	.1	.0	.2
73	7.0	3.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0
74	TRACE	TRACE	6.4	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	6.4
75	TRACE	TRACE	.2	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	.2
MEAN													
S. D.													
TOTAL OBS.													



## (FROM DAILY OBSERVATIONS)

13750

STATION NAME

YEARS

5723 Extreme Values Jan 1969

NAVWEASERVCOM

**SNOWFALL**  
**(FROM DAILY OBSERVATIONS)**

46-77

STATION	STATION NAME
13750	NORFOLK, VIRGINIA

YEARS

24 HOUR AMOUNTS IN INCHES  
/BASED ON LESS THAN FULL MONTHS/

[illegible]

NAVWEASERVCOM

# EXTREME VALUES

SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

13750 STATION      NORFOLK, VIRGINIA      STATION NAME      48-77      YEARS

## DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
46													
47													
48												TRACE	0
49												0	0
50												1	0
51												0	0
52												0	0
53												0	0
54	TRACE											0	1
55												2	2
56												TRACE	0
57												0	0
58												0	1
59	TRACE		TRACE									12	TRACE
60												0	0
61												0	0
62												0	1
63	TRACE		TRACE									2	5
64	TRACE											0	4
65												0	2
66												0	3
67												1	11
68	TRACE											2	5
69												TRACE	2
70	TRACE											0	2
71												0	2
72												0	1
73												0	0
74												0	0
75	TRACE											0	2
MEAN													TRACE
S. D.													
TOTAL OBS.													



## EXTREME VALUES

**SNOW DEPTH**  
(FROM DAILY OBSERVATIONS)

48-77

STATION	STATION NAME
13750	NORFOLK, VIRGINIA

YEARS

DAILY SNOW DEPTH IN INCHES

[illegible]

NAVWEASERVCOM

SNOW DEPTH  
FROM DAILY OBSERVATIONS

48-77

**NORFOLK, VIRGINIA**

STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE
STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE

**YEARS**

DAILY SNOW DEPTH IN INCHES  
/BASED ON LESS THAN FULL MONTHS/

[illegible]

NAVWEASERVCOM

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

STATION  
13750

STATION NAME  
NORFOLK, VIRGINIA

1946-1977

YEARS

# DAILY EXTREME AMOUNTS

JANUARY  
MONTH

FEBRUARY  
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.95	24	1961	T	T	1971*
2	0.16	4	1953	T	T	1962
3	1.18	30	1947	T	T	1977
4	0.67	17	1972	T	T	1967*
5	1.20	30	1971	0.4	10	1977
6	1.19	30	1962	1.0	25	1970
7	0.71	18	1958	2.1	53	1958
8	2.55	65	1967	7.0	178	1973
9	0.61	15	1964	0.1	3	1968
10	1.27	32	1952	4.0	102	1962
11	0.71	18	1955	3.0	76	1955
12	0.81	21	1950*	0.3	8	1962
13	1.64	42	1972	T	T	1968*
14	1.30	33	1961	T	T	1974*
15	0.74	19	1954	2.1	53	1965
16	0.93	24	1954	3.9	99	1965
17	0.83	21	1948	0.1	3	1965
18	0.49	12	1963	T	T	1971*
19	0.62	16	1969	4.5	114	1967
20	1.12	28	1969	1.0	25	1970
21	0.57	14	1954	T	T	1975*
22	1.00	25	1954	T	T	1961*
23	0.17	4	1971	0.2	5	1954
24	0.63	16	1971	2.5	63	1948
25	0.85	22	1958	1.1	28	1968
26	0.60	15	1966	6.0	152	1966
27	1.09	28	1976	2.0	51	1966
28	1.19	30	1973	5.2	132	1962
29	0.57	14	1957	3.0	76	1966
30	0.36	9	1965	3.6	91	1965
31	1.23	31	1960	4.0	102	1948
Monthly	2.55	65	1967	7.0	178	1973

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.89	23	1969	2.1	53	1948
2	1.67	42	1972	T	T	1976*
3	1.52	39	1970	3.0	76	1970
4	0.85	22	1971	0.5	13	1971
5	0.28	7	1960	T	T	1977*
6	0.93	24	1956	0.1	3	1948
7	1.13	29	1949	0.8	20	1968
8	1.35	34	1961	T	T	1974*
9	0.50	13	1967	5.0	127	1967
10	1.43	36	1948	3.0	76	1973
11	0.66	17	1960	2.0	51	1964
12	1.17	30	1963	1.0	25	1962
13	1.17	30	1960	4.0	102	1960
14	0.84	21	1965	8.0	203	1965
15	0.84	21	1953	0.1	3	1965
16	1.40	36	1974	0.5	13	1977
17	1.03	26	1967	T	T	1967*
18	0.34	9	1960	0.1	3	1969
19	0.81	21	1963	T	T	1972*
20	0.60	15	1947	T	T	1969
21	2.13	54	1954	0.1	3	1963
22	0.58	15	1948			
23	0.41	10	1962*	3.5	89	1947
24	0.92	23	1966	T	T	1968*
25	1.10	28	1961	T	T	1974*
26	0.98	25	1957	0.6	15	1963
27	1.13	29	1958	1.0	25	1973
28	0.88	22	1966	T	T	1964
29	0.80	20	1968	1.4	36	1968
30						
31						
Monthly	2.13	54	1954	8.0	203	1965

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

13750 NORFOLK, VIRGINIA  
STATION STATION NAME

1946-1977

YEARS

# DAILY EXTREME AMOUNTS

MARCH  
MONTH

APRIL  
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.92	23	1969	2.0	51	1968
2	0.68	17	1969	3.0	76	1960
3	0.82	21	1973	2.0	51	1960
4	0.62	16	1966	T	T	1971
5	1.13	29	1962	T	T	1962
6	0.83	21	1957	1.0	25	1962
7	0.92	23	1948	0.3	8	1969
8	0.81	21	1957	T	T	1975*
9	1.29	33	1976	3.0	76	1960
10	0.19	5	1975	1.9	48	1960
11	0.94	24	1974	T	T	1974
12	0.79	20	1963	T	T	1974
13	0.66	17	1977	0.3	8	1968
14	1.76	45	1954	T	T	1970*
15	0.61	15	1971	T	T	1950
16	1.48	38	1956	2.0	51	1950
17	1.78	45	1968	2.0	51	1949
18	0.61	15	1949	T	T	1955
19	1.88	48	1958	T	T	1963*
20	1.03	26	1977	T	T	1973*
21	1.58	40	1973	T	T	1973
22	0.84	21	1961	T	T	1956
23	0.64	16	1949	T	T	1974
24	1.74	44	1952	6.4	163	1974
25	0.64	16	1974	1.0	25	1971
26	1.07	27	1971	T	T	1971*
27	0.64	16	1959	T	T	1964
28	0.53	13	1950	T	T	1975
29	0.84	21	1974	T	T	1973
30	0.78	20	1975	6.4	163	1974
31	0.62	16	1973	T	T	1974
Monthly	1.88	48	1958	6.4	163	1974

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.82	21	1948	T	T	1964
2	0.59	15	1959	T	T	1954
3	0.32	8	1949	T	T	1954
4	0.75	19	1974	T	T	1954
5	0.94	24	1968	T	T	1954
6	0.93	24	1969	T	T	1954
7	1.08	27	1948	T	T	1954
8	1.30	33	1957	0.2	5	1972
9	0.63	17	1947	T	T	1956
10	0.66	17	1958	T	T	1956
11	1.14	29	1956	T	T	1956
12	2.16	55	1947	T	T	1956
13	0.93	24	1953	T	T	1956
14	0.77	20	1948	T	T	1956
15	2.23	57	1975	T	T	1956
16	0.46	12	1956	T	T	1956
17	0.41	10	1967	T	T	1956
18	0.21	5	1959	T	T	1956
19	0.27	7	1951	T	T	1956
20	0.21	5	1956*	T	T	1956
21	0.31	8	1950	T	T	1956
22	1.31	33	1972	T	T	1956
23	1.00	25	1971	T	T	1956
24	2.16	55	1968	T	T	1956
25	0.83	21	1946	T	T	1956
26	1.61	41	1954	T	T	1956
27	0.69	18	1973	T	T	1956
28	0.95	24	1958	T	T	1956
29	0.59	15	1950	T	T	1956
30	1.60	41	1953	T	T	1956
31	2.23	57	1975	0.2	5	1972
Monthly	2.23	57	1975	0.2	5	1972

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

# DAILY EXTREME AMOUNTS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

1946-1977

13750 NORFOLK, VIRGINIA  
STATION NAME

YEARS

JUNE  
MONTH

MAY  
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.00	25	1956			
2	5.21	132	1963			
3	1.75	44	1963			
4	1.04	26	1950			
5	1.18	30	1957			
6	1.63	42	1972			
7	1.06	27	1953			
8	1.41	36	1951			
9	0.96	24	1977			
10	0.83	21	1961			
11	0.98	25	1958			
12	1.60	41	1958			
13	1.71	43	1964			
14	0.71	18	1972			
15	1.80	46	1965			
16	1.37	35	1975			
17	0.93	24	1953			
18	2.92	74	1947			
19	0.14	4	1976*			
20	0.43	11	1962			
21	0.88	22	1961			
22	1.35	34	1973			
23	1.94	49	1974			
24	0.79	20	1951			
25	1.44	37	1967			
26	1.71	43	1961			
27	0.63	16	1949			
28	3.21	82	1972			
29	2.67	68	1973			
30	0.56	14	1965			
31						
Monthly	5.21	132	1963			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.72	18	1961			
2	1.46	37	1949			
3	0.89	23	1972			
4	1.14	29	1977			
5	1.04	26	1958			
6	1.98	50	1958			
7	0.92	23	1967			
8	0.81	21	1954			
9	0.32	8	1974			
10	0.79	20	1949			
11	1.83	46	1961			
12	0.41	10	1950			
13	1.07	27	1948			
14	0.78	20	1966			
15	0.49	12	1946			
16	0.89	23	1971			
17	0.95	24	1948			
18	0.53	13	1953			
19	0.59	15	1957			
20	2.24	57	1969			
21	0.76	19	1960			
22	0.48	12	1955			
23	0.64	16	1956			
24	1.22	31	1977			
25	1.72	44	1947			
26	2.04	52	1958			
27	1.59	40	1968			
28	1.04	26	1960			
29	1.29	33	1976			
30	1.69	43	1972			
31	2.79	71	1948			
Monthly	2.79	71	1948			

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

13750

NORFOLK, VIRGINIA

STATION

STATION NAME

1946-1977

YEARS

# DAILY EXTREME AMOUNTS

JULY

MONTH

AUGUST

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.06	27	1969			
2	1.11	28	1946			
3	1.81	46	1962			
4	1.66	42	1962			
5	4.08	104	1956			
6	1.09	28	1950			
7	0.54	14	1969			
8	0.59	15	1967			
9	2.98	76	1950			
10	1.24	31	1956			
11	0.58	15	1971			
12	2.65	67	1975			
13	1.28	33	1949			
14	2.09	53	1975			
15	1.37	35	1954			
16	1.74	44	1950			
17	0.63	16	1975			
18	0.93	24	1955			
19	2.48	63	1947			
20	0.46	12	1969			
21	3.07	78	1947			
22	1.03	26	1969			
23	0.86	22	1948			
24	1.32	34	1961			
25	1.00	25	1975			
26	1.82	46	1974			
27	3.31	84	1969			
28	6.49	165	1973			
29	2.78	71	1960			
30	2.52	64	1966			
31	1.25	32	1962			
Monthly	6.49	165	1973			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.84	47	1951			
2	1.14	29	1948			
3	2.71	69	1973			
4	2.18	55	1948			
5	2.93	74	1961			
6	2.67	68	1974			
7	0.60	15	1951			
8	1.43	36	1952			
9	2.71	69	1962			
10	1.54	39	1976			
11	1.11	28	1967			
12	2.07	53	1955			
13	1.51	38	1953			
14	5.80	147	1953			
15	2.15	55	1949			
16	1.14	29	1949			
17	2.81	71	1953			
18	1.49	38	1946			
19	0.78	20	1957			
20	2.55	65	1956			
21	0.67	17	1967			
22	2.03	52	1950			
23	1.68	43	1955			
24	1.20	30	1955			
25	1.69	43	1958			
26	1.27	32	1958			
27	0.95	24	1971			
28	2.52	64	1947			
29	0.33	8	1954			
30	0.99	25	1964			
31	6.43	163	1964			
Monthly	6.43	163	1964			

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

STATION

13750 NORFOLK, VIRGINIA

STATION NAME

YEARS

1946-1977

# DAILY EXTREME AMOUNTS

SEPTEMBER

MONTH

OCTOBER

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	2.66	68	1964			
2	0.99	25	1972			
3	3.11	79	1955			
4	0.81	21	1956			
5	1.85	47	1972			
6	2.13	54	1974			
7	0.60	15	1948			
8	1.01	26	1969			
9	0.92	23	1957			
10	1.51	38	1967			
11	1.70	43	1971			
12	3.82	97	1960			
13	3.76	96	1964			
14	0.62	16	1961			
15	5.47	139	1963			
16	1.78	45	1949			
17	0.87	22	1962			
18	0.28	7	1957			
19	1.31	33	1955			
20	0.92	23	1969			
21	4.72	120	1972			
22	1.50	38	1950			
23	0.54	14	1952*			
24	2.63	67	1947			
25	1.15	29	1951			
26	1.00	25	1965			
27	2.40	61	1953			
28	3.91	99	1959			
29	2.23	57	1946			
30	3.89	99	1971			
31						
Monthly	5.47	139	1963			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	2.76	70	1971			
2	1.41	36	1976			
3	2.40	61	1962			
4	2.23	57	1964			
5	1.11	28	1964			
6	1.48	38	1972			
7	0.88	22	1963			
8	0.41	10	1960			
9	0.87	22	1947			
10	2.12	54	1959			
11	0.14	4	1947			
12	0.34	9	1977			
13	0.87	22	1977			
14	1.25	32	1959			
15	0.30	8	1954			
16	1.01	26	1974			
17	0.62	16	1956			
18	0.96	24	1975			
19	1.37	35	1968			
20	1.12	28	1960			
21	3.31	84	1958			
22	0.61	15	1956			
23	3.03	77	1971			
24	2.60	66	1959			
25	0.37	9	1967			
26	1.09	28	1977			
27	0.34	9	1975	T	T	1957
28	0.49	12	1972*			
29	0.69	18	1954			
30	3.03	77	1956			
31	0.98	25	1949			
Monthly	3.31	84	1958	T	T	1957

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

13750

NORFOLK, VIRGINIA

STATION

STATION NAME

1946-1977

YEARS

## DAILY EXTREME AMOUNTS

NOVEMBER

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.98	50	1949			
2	0.64	16	1946			
3	2.44	62	1947	T	T	1951
4	1.77	45	1948			
5	1.23	31	1973			
6	2.06	52	1977			
7	1.03	26	1951	T	T	1953
8	1.52	39	1972	T	T	1976
9	0.84	21	1962			
10	1.48	38	1955			
11	0.81	21	1970			
12	0.67	17	1975			
13	0.64	16	1975			
14	0.31	8	1972			
15	0.64	16	1947			
16	0.23	6	1968			
17	0.73	19	1972			
18	1.35	34	1946			
19	0.76	19	1955	T	T	1961
20	1.15	29	1952			
21	2.47	63	1952			
22	1.07	27	1962	0.1	3	1972
23	1.15	29	1957			
24	0.49	12	1971	T	T	1956
25	1.04	26	1957	T	T	1950
26	1.03	26	1958	T	T	1977
27	0.48	12	1971			
28	1.18	30	1948	0.9	23	1950
29	1.28	33	1963	0.9	23	1950
30	1.10	28	1957	0.2	5	1967
31						
Monthly	2.47	63	1952	0.9	23	1950

DECEMBER

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.73	19	1974	T	T	1967
2	0.42	11	1952			
3	1.37	35	1948	T	T	1966
4	1.03	26	1950	T	T	1966*
5	0.30	8	1977			
6	0.45	11	1959	1.6	41	1954
7	0.95	24	1975	1.3	33	1968
8	1.87	47	1973	T	T	1977*
9	2.18	55	1957	T	T	1977*
10	1.11	28	1967	T	T	1957
11	1.46	37	1960	9.1	231	1958
12	0.74	19	1953	2.5	63	1958
13	0.97	25	1966	T	T	1966
14	1.02	26	1972	4.0	102	1958
15	1.63	41	1972	T	T	1968*
16	1.46	37	1973	T	T	1973*
17	0.92	23	1961	0.3	8	1973
18	0.85	22	1959	T	T	1971*
19	0.91	23	1948	T	T	1974*
20	0.46	12	1973	T	T	1962*
21	0.60	15	1977	0.3	8	1962
22	1.25	32	1967	T	T	1950
23	0.95	24	1963	3.6	91	1967
24	0.47	12	1956	0.5	13	1966
25	0.59	15	1962	1.8	46	1947
26	0.99	25	1975	T	T	1970
27	1.07	27	1964	T	T	1956*
28	1.32	34	1958	T	T	1977*
29	0.88	22	1958	T	T	1976*
30	1.29	33	1948	T	T	1953
31	1.02	26	1952	T	T	1970*
Monthly	2.18	55	1957	9.1	231	1958

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

## PART C

## SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with < 90% observations reported is also provided.

**NOTE:** According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from 3-hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

- a. Three tables are prepared for all surface winds included, and for all years combined as follows:

- (1) Annual - all hours combined
- (2) By month - all hours combined
- (3) By month - by standard 3-hour groups

- b. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: **INSTRUMENT CLASS:** Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.



# EXTREME VALUES

SURFACE WINDS  
(FROM DAILY OBSERVATIONS)

13750 NORFOLK, VIRGINIA  
STATION NAME

46-77

YEARS

## DAILY PEAK GUSTS IN KNOTS

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
46	NNE 42W	54W	40SW	39NW	45SW	48NW	46N	29NE	34N	37	30ESE	NNW 48	S 60
47	WNW 43NW	41S	60NNW	34N	34NE	39NW	32S	27ENE	55NE	30ESE	52SW	32	W 60
48	NE 43N	47N	41NW	45SW	43W	60W	36SW	43NE	34ENE	43E	41W	48	NNE 47
49	W 43SW	41W	40SW	40NE	44ESE	33NW	33SW	45NE	37N	34NNE	47NNE	32	NNW 55
50	N 40SSW	31SW	44SW	41N	39SSW	45N	34NNW	38NNW	55NNE	25SW	47NW	38	SSW 56
51	WSW 38WNW	52N	38WNW	55SW	48SSW	56W	46NW	38N	30NW	51SSE	44SSW	41	E 63
52	WSW 51N	50MSW	58WSW	53SSW	40MNW	35WSW	46SW	37SW	37MNW	42E	63SSE	60	S 85
53	SSE 52W	50MNW	42WNW	45W	45NE	32WSW	46	N	51NNW	38NNE	57WSW	61	W 59
54	NNE 55S	46MNW	42NNE	47ENE	42NW	38NW	58NNW	52N	60S	85MNW	44N	57	SE 56
55	WNW 46S	58W	59WSW	51N	39S	50SSW	48ENE	59ENE	53WSW	57SW	48NNW	37	WNW 61
56	SSW 39SSW	51W	45NE	52NW	43SE	56W	40NW	46ENE	42NNE	33NNW	32W	29	NNE 47
57	WNW 39SW	32SW	38WNW	61SSW	28SSW	36SSW	28NNE	43S	31NNW	45N	35NNW	37	WSW 47
58	E 38W	43NW	31SSE	42MNW	41MNW	45SW	40SSW	39NNE	47NE	40N	38E	36	NNW 66
59	WSW 47NNW	37WSW	45NE	38SW	42SW	35WNW	41NNE	30NE	28W	31NNE	30NNE	38	WSW 46
60	WNW 37WSW	46E	43NW	36SW	51NNW	36SE	35NNW	32MNW	66SSW	39N	30WNW	44	NNW 52
61	NW 36SSW	44N	30WNW	36WNW	34WSW	46WSW	33S	40NE	30NNW	35NNW	34NNE	30	W 50
62	NNE 39NNE	34NNE	52NW	38N	43NE	38N	42NNW	31NNE	31MNW	33SSE	51WSW	40	SSW 46
63	WNW 33NNE	39W	50NW	39NNE	49NE	37SSW	39W	45NNE	43NNE	37NW	34WNW	36	SSW 45
64	W 37W	43SSW	46SW	43W	36NNW	36NNW	37W	36NE	43ENE	38N	35N	36	SW 42
65	N 42SSW	45W	43S	31WSW	43E	34S	26N	34W	26SE	34WNW	34NNW	34	WSW 45
66	N 38SW	42W	35WNW	34NNE	31N	31NE	33SSW	28NNE	29N	32SW	37W	33	WSW 45
67	W 36W	33MSW	45NNE	39SSW	45N	31MNW	34MNW	29NNE	45SW	42NW	33NNW	35	NE 45
68	N 39NNW	43MNW	40SSW	36ENE	38NNW	33NW	25N	29N	23N	38NE	45W	37	N 44
69	NE 34WNW	39N	44S	38SSW	31W	35NE	42N	43NE	27NNE	31ESE	31NW	33	W 56
70	NW 38NW	37SSW	29SSW	45NNE	28W	56W	50W	29W	42N	34W	45NW	39	W 48
71	W 4821	4201	4003	3721	3936	3036	3708	3805	4019	3933	3834	47	01 47
72	36 3622	3917	3634	3504	3132	4435	3201	2801	4708	3316	3728	42	02 45
73	15 3302	4526	4524	3930	3219	2803	3919	4405	2632	2021	3803	37	18 45
74	24 2818	4521	3921	3318	3308	3120	4030	3501	2702	2810	3612	37	27 44
75	25 3723	3629	4227	4431	3335	2523	3331	2731	2931	3201	3520	34	
MEAN													
S. D.													
TOTAL OBS.													

NAVWEASERVCOM

5723 Extreme Values Jan 1969

**SURFACE WINDS**  
(FROM DAILY OBSERVATIONS)

STATION	STATION NAME
13750	NORFOLK, VIRGINIA

46-77

YEARS

DAILY PEAK GUSTS IN KNOTS

[illegible]

NAVWEASERVCOM

**SURFACE WINDS**  
(FROM DAILY OBSERVATIONS)

13750	NORFOLK, VIRGINIA
STATION	STATION NAME

46-77

YEARS

DAILY PEAK GUSTS IN KNOTS  
/BASED ON LESS THAN 90% OBSERVATIONS FOR MONTH/[illegible]

NAVWEASERVCOM



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.0	3.2	4.5		.6						10.3	10.6
NNE		2.6	1.9	.6								5.2	7.6
NE	.6	1.3	1.3									3.2	5.6
ENE		1.3										1.3	5.5
E	1.3											1.3	2.5
ESE												.6	7.0
SE	.6	.0	.0									1.3	4.0
SSE	.6	2.6	1.9	.6								5.8	6.9
S	1.3	1.3	1.9	.6								5.2	6.6
SSW		3.2	5.8	3.2								12.3	8.9
SW	1.3	1.3	2.6	.6								5.8	6.9
WSW			1.9	.6								2.6	9.0
W	1.3	4.5	5.2	1.3								12.3	7.2
WNW			1.3		.6							1.9	11.0
NW		1.9	.6	5.2								7.7	10.6
NNW		2.6	1.3	3.9								7.7	10.5
VARBL													
CALM												15.5	
	8.4	23.9	29.7	21.3	.6	.6						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

04  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	5.2	.6	3.9	.6							11.0	8.6
NNE	1.3	1.3	2.6	1.9								7.1	8.6
NE			2.6	.6								3.2	8.6
ENE	.6	1.3										1.9	4.3
E	.6	.6										1.3	4.5
ESE													
SE	.6	1.9	.6									3.2	5.2
SSE	.6	1.9	1.3									3.9	5.3
S		3.2	2.6	.6								6.5	6.8
SSW		3.2	3.2	.6								9.0	7.2
SW		.6	1.3	1.9								3.9	10.8
WSW	1.3	4.5	1.9	2.6								10.3	7.4
W		1.9	1.9	2.6								6.5	9.5
WNW	1.9		1.9	2.6								6.5	8.0
NW	.6	.6	1.9	2.6								5.8	9.6
NNW		1.9	1.9	3.9								7.7	10.6
VARBL													
CALM												12.3	
	8.4	28.4	26.5	23.9	.6							100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

07  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	3.9	3.2	3.2								11.0	8.2
NNE		.6	5.2	1.3	1.3							8.4	10.8
NE	.6	2.6	.6									3.9	5.3
ENE	.6			.6								1.3	7.0
E	.6											.6	3.0
ESE	.6		.6									1.3	6.5
SE		1.3	.6									1.9	7.0
SSE		2.6	1.9									4.5	6.6
S	1.3	2.6	1.9									5.8	5.7
SSW	.6	3.9	4.5	.6								9.7	7.4
SW		3.2	3.2	1.3								7.7	7.2
WSW	1.3	.6	1.9	1.3								5.2	8.6
W	1.3	2.6	2.6	3.2								9.7	8.3
WNW		1.3	1.9	1.9								5.2	9.0
NW		1.9	2.6	1.3	.6							6.5	9.7
NNW		1.9	4.5	1.3								7.7	8.7
VARBL													
CALM												9.7	
	7.7	29.0	35.5	16.1	1.9							100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

73-77

JAN  
MONTH

STATION NAME

YEARS

ALL WEATHER  
CLASS

10  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		3.2	5.2	3.2	1.3							12.9	9.6
NNE	.6	3.2	1.9	1.9								7.7	8.4
NE		.6	1.3									1.9	7.0
ENE	1.9		1.9									3.9	5.5
E		1.3	2.6									3.9	7.2
ESE													
SE													
SSE	.6	1.3	1.9	1.9								5.8	8.4
S	.6	1.9	1.9	1.9								6.5	8.1
SSW		1.3	3.9	1.9								7.1	8.9
SW		2.6	2.6	1.9								7.1	8.6
WSW		.6	3.9	2.6	.6							7.7	10.4
W		1.9	3.9	3.9								9.7	10.3
WNW		1.3	1.3	.6								3.2	8.6
NW		.6	2.6	1.9								5.2	9.9
NNW	2.6	1.3	3.2	3.9	.6							11.6	8.9
VARBL													
CALM												5.8	
	6.5	21.3	38.1	25.8	2.6							100.0	8.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.6	5.2	2.6	.6	.6						12.9	9.6
NNE	1.3	4.5	5.2	.6								11.6	7.1
NE		1.9	.6									2.6	6.3
ENE	1.3	2.6	.6									4.5	5.0
E		.6	.6	.6								1.3	10.5
ESE		1.3										1.3	5.5
SE	.6	.6	.6		.6							2.6	8.0
SSE		.6			.6							1.3	10.5
S	.6		3.2	1.9	.6							6.5	10.7
SSW	1.3	.6	1.9	3.9								7.7	9.8
SW		1.3	1.3	1.9								4.5	10.4
WSW			.6	5.2	.6							6.5	13.4
W	1.9	3.2	5.2	8.4	.6							19.4	9.8
WNW	.6		1.9	1.3								3.9	9.7
NW		.6	.6	.6	.6							2.6	10.5
NNW	.6	1.9	.6	2.6								5.8	8.1
VARBL													
CALM												5.2	
	9.7	21.9	28.4	29.7	4.5	.6						100.0	8.8

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	1.9	5.2	1.3	.6	.6						12.3	8.4
NNE	1.3	3.2	3.9	1.3								9.7	7.2
NE	2.6	1.9	.6									5.2	4.1
ENE	1.9	2.0	1.9									6.5	5.1
E	.6	3.2	1.9									5.8	5.8
ESE	.6		.6									1.3	4.5
SE		.6		.6								1.3	8.5
SSE		.6	.6	.6								1.9	9.0
S		1.3	1.3	1.9								4.5	10.4
SSW	.6	.6	1.3	2.6								5.2	9.8
SW		3.2	1.9	2.6								7.7	9.0
WSW	.6	2.6	5.2	3.9								12.3	8.9
W			5.2	3.2	.6							9.0	11.1
WNW	1.3	.6	3.2	3.9								9.0	9.1
NW			1.9		.6							2.6	11.0
NNW		1.9		1.9								3.9	9.2
VARBL													
CALM												1.9	
	12.3	24.5	34.8	23.9	1.9	.6						100.0	8.2

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

19  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	1.9	1.9	1.3		.6						7.7	8.1
NNE	.6	1.3	3.9	2.6		.6						9.0	9.7
NE	1.3	.6	.6	.6								3.2	6.0
ENE		.6		.6								1.3	8.0
E	.6	3.2	.6									4.5	4.7
ESE	1.3	1.9	.6									3.9	4.5
SE	2.6	.6	1.3									4.5	4.4
SSE		.6	.6	.6								1.3	12.0
S	3.2	1.9	1.9	.6								7.7	5.4
SSW		3.2	5.2	1.3								9.7	7.9
SW		1.3	1.9	1.9								5.2	9.0
WSW	.6	3.9	1.3	1.3		.6						7.7	8.1
W	1.3	.6	3.2	.6	.6							6.5	9.2
WNW		.6	1.9									2.6	7.0
NW		.6	2.6	.6								3.9	8.8
NNW		1.3	3.2	.6	1.3							6.5	10.6
VARBL													
CALM												14.8	
	13.5	23.9	31.0	12.9	1.9	1.9						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

22  
HOURS (L.S.T.)

CONDITION

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.6	2.6	3.2								8.4	8.8
NNE	.6	.6	3.2	1.3	.6							6.5	9.9
NE			1.9									1.9	8.7
ENE	.6	1.3	.6	.6								3.2	6.8
E	.6	.6										1.3	3.0
ESE	.6	.6	1.3									2.6	5.8
SE	1.3	1.9		.6								3.9	5.3
SSE	.6	3.2	.6									4.5	4.9
S	.6	3.2	1.3	1.9	.6							7.7	8.1
SSW		3.2	3.2	.6								7.1	7.5
SW	.6	.6	3.2	.6								5.2	8.5
WSW	.6	1.3	3.9									5.8	8.0
W	.6	3.2	4.5	1.3	.6							10.3	8.3
WNW		.6	1.9									2.6	7.3
NW		.6	1.3	1.9	.6		.6					5.2	14.6
NNW	.6	.6	1.3	4.5	1.3							8.4	12.0
VARBL													
CALM												15.5	
	7.7	24.5	31.0	16.8	3.9		.6					100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.7	3.4	2.9	.4	.3						10.8	9.0
NNE	.7	2.2	3.5	1.5	.2	.1						8.1	8.6
NE	.6	1.1	1.4	.2								3.1	6.1
ENE	.9	1.2	.6	.2								3.0	5.6
E	.6	1.1	.7	.1								2.5	5.5
ESE	.4	.5	.5									1.4	5.3
SE	.7	1.0	.4	.2	.1							2.3	5.8
SSE	.3	1.6	1.1	.5	.1							3.6	7.2
S	1.0	1.9	2.0	1.2	.2							6.3	7.6
SSW	.3	2.4	3.9	1.9								8.5	8.3
SW	.2	1.6	2.3	1.6								5.9	8.6
WSW	.6	1.7	2.6	2.2	.2	.1						7.3	9.1
W	.8	2.3	4.0	3.1	.3							10.4	9.2
WNW	.5	.6	1.9	1.3	.1							4.4	8.7
NW	.1	.9	1.6	1.8	.3		.1					4.9	10.6
NNW	.5	1.7	2.0	2.8	.4							7.4	9.9
VABL													
CALM												10.1	
	9.3	24.7	31.9	21.3	2.3	.5	.1					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

1240



2  
NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.1	2.8	4.3								9.9	9.4
NNE			2.8	2.8			.7					6.4	13.4
NE		1.4	.7	.7								2.8	8.3
ENE	.7	.7	.7									2.1	4.7
E		1.4										1.4	5.0
ESE													
SE	2.8		.7									3.5	3.6
SSE	1.4	4.3	.7									6.4	4.8
S	.7	2.1	5.0	2.1								9.9	8.1
SSW	1.4	7.1	6.4	2.1								17.0	7.5
SW	.7	.7	2.8	2.1								5.7	10.1
WSW	.7	1.4	2.1	.7								5.0	7.4
W	.7	2.1	.7	.7		.7						5.0	9.4
WNW		1.4		.7								2.1	8.0
NW		.7	1.4	3.5	.7							6.4	11.8
NNW		.7	.7	3.5		.7						5.7	13.9
VARBL													
CALM												10.6	
	9.2	26.2	27.7	23.4	.7	1.4	.7					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

141

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

FEB

MONTH

ALL WEATHER

CLASS

04

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			3.5	4.3			.7					8.5	13.2
NNE	.7	2.1		1.4	1.4							5.7	9.5
NE		.7	2.8		.7							4.3	10.5
ENE	.7	.7										1.4	3.5
E		.7	.7									1.4	7.0
ESE													
SE		.7										.7	4.0
SSE		2.8	.7									3.5	6.0
S	2.8	2.8	6.4	.7								12.8	6.8
SSW	.7	3.5	6.4									10.6	7.3
SW	1.4	5.0	1.4	1.4	.7							9.9	7.3
WSW		1.4	3.5	1.4								6.4	9.4
W	.7	2.1	2.8	.7								6.4	7.4
WNW			.7	.7	.7							2.1	13.3
NW		.7	2.1	2.1								5.0	10.7
NNW		1.4	4.3	2.8	1.4							9.9	11.1
VARB													
CALM												11.3	
	7.1	24.8	35.5	15.6	5.0		.7					100.0	7.9

TOTAL NUMBER OF OBSERVATIONS

141

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

07  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7	5.0	5.7	.7		.7					13.5	11.7
NNE			2.1	2.1	.7							5.0	11.3
NE		.7	1.4		.7							2.8	10.5
ENE		.7	.7									1.4	7.0
E	.7	.7	.7									2.1	5.0
ESE													
SE	1.4	2.1										3.5	3.6
SSE	.7	.7	.7	.7								2.8	6.8
S	.7	4.3	1.4	.7								7.1	6.7
SSW	.7	1.4	7.1	2.1								11.3	8.9
SW		4.3	2.1	2.8								9.2	8.5
WSW		3.5	.7	.7								5.0	6.4
W		2.1	4.3	2.8	.7							9.9	10.1
WNW		.7	.7		.7							2.1	10.7
NW			.7	1.4								2.1	12.3
NNW		1.4	4.3	3.5	.7							9.9	10.4
VARBL													
CALM												12.1	
	5.0	23.4	31.9	22.7	4.3		.7					100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

141



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

FEB  
MONTH

ALL WEATHER

CLASS

10

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.4	2.1	7.8	.7	.7						12.8	12.2
NNE		1.4	3.5	4.3	.7		.7					10.6	11.7
NE		1.4	.7									2.1	6.7
ENE		2.1	.7									2.8	5.5
E			1.4									1.4	9.0
ESE													
SE		1.4	2.1	.7								4.3	8.2
SSE	.7		1.4	1.4								3.5	9.4
S	2.1	.7	2.8	1.4		.7						7.8	8.9
SSW		2.1	3.5	4.3	.7							10.6	9.8
SW	.7	4.3	1.4	1.4								7.8	6.8
WSW			3.5	3.5	.7							7.8	11.3
W	.7	2.1	2.1	3.5	.7							9.2	9.8
WNW			2.8	2.8	.7							6.4	11.2
NW	.7	.7	2.1	2.8								6.4	9.9
NNW		.7	3.5	2.1								6.4	10.1
VARBL													
CALM												.0	
	5.0	18.4	34.0	36.2	4.3	1.4	.7					100.0	10.0

TOTAL NUMBER OF OBSERVATIONS

141

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		3.3	4.3	4.3	.7	.7						13.5	10.2
NNE	.7	3.3	3.3	3.3	.7		.7					12.8	10.1
NE	.7		1.4	1.4								3.5	9.0
ENE		1.4	.7									2.1	7.0
E		1.4	.7									2.1	5.7
ESE	.7	2.1										2.8	4.0
SE													
SSE	.7		.7	.7								2.1	6.7
S	1.4	.7	2.8	5.7								10.6	10.6
SSW		2.1	2.1	2.8								7.1	9.7
SW		1.4	2.1	2.8	1.4							7.8	11.5
WSW	.7	1.4	2.1	5.7								9.9	10.4
W		.7	4.3	4.3	1.4							10.6	11.2
WNW		.7	1.4	3.5	.7							6.4	11.1
NW			.7	.7								1.4	11.0
NNW	.7	1.4	.7	2.1								5.0	8.6
VARBL													
CALM												2.1	
	5.7	20.6	27.7	37.6	5.0	.7	.7					100.0	9.7

TOTAL NUMBER OF OBSERVATIONS

141

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

FEB

MONTH

ALL WEATHER

CLASS

16

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.1	1.4	3.5	.7		.7					9.2	11.3
NNE	.7	1.4	3.5	2.1	.7							8.5	9.9
NE		2.1	2.1									4.3	6.8
ENE	1.4	3.5	2.8									7.8	5.1
E	.7	5.7	2.1	1.4								9.9	6.3
ESE			1.4									1.4	7.0
SE			.7									.7	8.0
SSE		.7	.7	.7								2.1	9.0
S		.7	2.1	2.1	.7							5.7	11.1
SSW		.7	5.0	5.0	.7							11.3	11.6
SW		.7	3.5	2.8								7.1	10.3
WSW	.7	1.4	3.5	1.4								7.1	8.0
W	.7	.7	2.1	2.1								5.7	9.1
WNW			2.1	5.7								7.8	11.5
NW	.7	.7	3.5	2.1	.7							7.8	10.6
NNW		.7		1.4								2.1	9.7
VARBL													
CALM												1.4	
	5.7	21.3	36.9	30.5	3.5		.7					100.0	9.2

TOTAL NUMBER OF OBSERVATIONS

141

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

FEB  
MONTH

ALL WEATHER

CLASS

19

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N		2.1	2.8	2.1	1.4	.7						9.2	11.8
NNE		.7		2.1			.7					3.5	14.2
NE	.7	1.4	1.4									3.5	5.6
ENE		1.4	.7									2.1	5.0
E	3.5	.7	1.4									5.7	3.9
ESE		2.1										2.1	4.3
SE	2.1	5.0	1.4	.7								9.2	5.8
SSE	2.1	2.8	2.8									7.8	5.4
S	.7	2.8	5.0	.7								9.2	7.2
SSW	1.4	5.7	5.0	2.1								14.2	7.4
SW		1.4	.7	.7								2.8	8.5
WSW	.7	.7	1.4	.7								3.5	7.4
W	.7	1.4	1.4									3.5	6.6
WNW	.7	.7	.7			.7						2.8	9.3
NW		1.4	2.1	1.4								5.0	9.0
NNW		.7	.7	1.4								2.8	10.3
VARB													
CALM												12.8	
	12.8	31.2	27.7	12.1	1.4	1.4	.7					100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

141

2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

22  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.0	2.0	3.5	1.4	.7						10.6	12.0
NNE	.7	1.4	.7	1.4	.7			.7				5.7	12.5
NE	1.4			.7								2.1	6.3
ENE	.7	.7	2.1									3.5	6.2
E													
ESE	.7											.7	2.0
SE	2.1	.7	1.4									4.3	5.0
SSE	2.1	2.1	2.1									6.4	5.7
S	1.4	5.7	7.8	3.5								18.6	7.4
SSW	1.4	5.0	3.5	1.4	1.4							12.8	7.9
SW	.7	.7	1.4	2.8								5.7	9.9
WSW		.7										.7	4.0
W		2.1	1.4	1.4								5.0	8.7
WNW		.7	2.8	.7								4.3	9.3
NW			.7	1.4	.7							2.8	15.3
NNW	.7	.7	.7	1.4	1.4	.7						5.7	12.4
VARBL													
CALM												11.3	
	12.1	23.4	27.0	18.6	5.7	1.4		.7				100.0	7.9

TOTAL NUMBER OF OBSERVATIONS

141

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.9	3.0	4.4	.7	.4	.3					10.9	11.4
NNE	.4	1.3	2.0	2.5	.6		.4	.1				7.3	11.3
NE	.4	1.0	1.3	.4	.2							3.2	8.1
ENE	.4	1.4	1.1									2.9	5.5
E	.6	1.3	.9	.2								3.0	5.7
ESE	.2	.5	.2									.9	4.5
SE	1.1	1.2	.8	.2								3.3	5.5
SSE	1.0	1.7	1.2	.4								4.3	6.2
S	1.2	2.5	4.2	2.1	.1	.1						10.2	8.1
SSW	.7	3.5	4.9	2.5	.4							11.9	8.6
SW	.4	2.3	2.0	2.1	.3							7.0	9.0
WSW	.4	1.3	2.1	1.8	.1							5.7	8.9
W	.4	1.7	2.4	2.0	.4	.1						6.9	9.5
WNW	.1	.5	1.4	1.8	.4	.1						4.3	10.8
NW	.2	.5	1.7	2.0	.3							4.6	11.0
NNW	.2	1.0	1.9	2.3	.4	.2						5.9	10.9
VARBL													
CALM												7.7	
	7.8	23.7	31.0	24.6	3.7	.8	.6	.1				100.0	8.4

TOTAL NUMBER OF OBSERVATIONS

1128



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

MAR

MONTH

ALL WEATHER

CLASS

01

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.3	4.5	3.9	.6							11.6	9.3
NNE	1.3	.6		1.3								3.2	7.0
NE		3.2		.6	.6							4.5	8.3
ENE	.6	1.9	.6	.6								3.9	5.8
E	.6	1.9	.6									3.2	4.8
ESE													
SE	1.3	1.9										3.2	4.0
SSE	.6	3.2	1.3	.6								5.8	6.1
S	1.9	4.5	5.8	1.3	.6							14.2	7.6
SSW		5.2	3.2	3.9	.6							12.9	9.2
SW		1.3	1.3	1.3								3.9	8.8
WSW	1.3	.6	2.6	.6								5.2	7.1
W			3.2	1.3		1.3						5.8	13.1
WNW		.6	1.9	1.3	.6							4.5	11.4
NW			.6	1.3	.6							2.6	13.3
NNW		.6	2.6	1.3	.6							5.2	11.4
VARBL													
CALM												10.3	
	9.0	27.1	28.4	19.4	4.5	1.3						100.0	7.7

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

04  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			4.3	2.6	1.9							9.0	12.4
NNE		1.3	2.6	1.3	1.3							6.5	11.0
NE	.6	1.9	3.2	1.3	.6							7.7	8.1
ENE	.6	.6	.6									1.9	5.3
E	.6	3.2		.6								4.5	5.7
ESE		.6										.6	5.0
SE	.6											.6	2.0
SSE	.6	3.2	1.3	1.9								7.1	7.5
S	1.3	1.9	1.3	1.9								6.5	7.1
SSW	.6	1.9	7.1	3.9	.6							14.2	9.3
SW	.6	1.3	1.9	1.9								5.8	8.3
WSW	.6	.6	1.3		.6							3.2	8.6
W		1.3	1.9	3.2	.6							7.1	10.5
WNW		.6	.6	1.3								2.6	10.3
NW	.6	.6	1.3	2.6								5.2	8.6
NNW		1.9	.6	2.6								5.2	9.6
VARBL													
CALM												12.3	
	7.1	21.3	26.4	25.2	5.8							100.0	7.9

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

07  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		3.2	3.2	5.2								11.6	9.4
NNE		1.3	1.9	1.3								4.5	8.4
NE	1.9	1.9	.6	.6								5.2	5.6
ENE		2.6	2.6	1.3								6.5	8.0
E	1.9	.6	1.3									3.9	4.8
ESE	.6	1.3										1.9	3.3
SE	.6											.6	3.0
SSE	.6	.6	1.3	1.3								3.9	8.3
S	1.9	1.9	3.9	.6	1.3							9.7	8.5
SSW	1.3	3.9	4.5	4.5								14.2	8.5
SW		1.9	.6	1.9								4.5	9.0
WSW			.6		.6							1.3	14.0
W		.6	1.9	3.2								5.8	10.8
WNW	.6	2.6	.6	1.3	.6							5.8	8.8
NW			1.9	.6								2.6	10.3
NNW		1.3	1.3	3.9	.6							7.1	10.9
VARBL													
CALM												11.0	
	9.7	23.9	26.3	25.8	3.2							100.0	7.7

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

10  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	2.6	4.3	3.2								12.9	7.8
NNE	.6	4.3	3.9	1.3								10.3	7.4
NE	.6	1.3	1.3	1.3								4.5	7.4
ENE	.6	.6	2.6	1.3								5.2	8.4
E	.6	2.6	1.9									5.2	6.4
ESE	.6	1.9	.6	.6								3.9	6.2
SE			1.9									1.9	8.3
SSE	1.3	.6		.6	.6							3.2	8.6
S	.6	.6	2.6	3.2	.6							7.7	11.0
SSW		1.3	3.2	3.2	.6							8.4	11.0
SW		3.2	3.2	1.9								8.4	8.6
WSW		.6	.6	1.9		.6						3.9	13.2
W		2.6	1.3	5.2	.6							9.7	11.3
WNW			1.3	3.2								4.5	12.3
NW		.6	1.3	1.3	.6							3.9	11.3
NNW		.6	1.3	1.9								3.9	10.8
VARBL													
CALM												2.6	
	7.7	23.9	31.6	30.3	3.2	.6						100.0	9.1

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	4.5	4.5	1.9	.6							12.9	7.6
NNE	.6	3.2	3.2	.6	.6							8.4	8.7
NE		3.2	3.9	.6								7.7	7.6
ENE	1.3	4.5	1.3	1.3								8.4	6.3
E		1.9	2.6									4.5	6.9
ESE	.6	2.6	.6									3.2	5.0
SE		.6	.6	.6								1.9	9.0
SSE		.6		1.9								2.6	10.3
S			.6	2.6	.6	.6						4.5	14.4
SSW		.6	2.6	.6	.6	.6						5.2	12.1
SW	1.3	1.3	2.6	3.9	1.3	1.3						11.6	12.2
WSW		1.3	3.2	3.2			.6					8.4	11.5
W		1.3	2.6	2.6	.6	.6						7.7	11.3
WNW			2.6	1.9	1.3							5.3	12.4
NW			1.3	1.9								3.2	11.0
NNW		.6		.6								1.3	8.5
VARBL													
CALM												2.6	
	5.2	26.5	31.6	24.5	5.8	3.2	.6					100.0	9.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6		1.9	2.6								5.2	9.6
NNE		1.9	2.6	1.9		.6						7.1	9.9
NE	1.3	3.9	2.6	.6								8.4	6.4
ENE	1.3	2.6	1.9	1.9								7.7	7.4
E	.6	5.8	3.2									9.7	5.9
ESE		1.9										1.9	4.7
SE		.6	3.2	1.9								5.8	9.0
SSE				.6								.6	13.0
S			2.6	1.3								3.9	10.0
SSW		.6	1.3	3.2								5.2	11.4
SW			1.9	5.2		.6						7.7	13.0
WSW	1.9		3.9	1.9	1.3		.6					9.7	11.3
W		2.6	2.6	2.6	1.9							9.7	11.1
WNW			3.9	2.6	1.3							7.7	11.8
NW		.6		1.9								2.6	11.3
NNW		3.2		1.3								4.5	7.4
VARBL													
CALM												2.6	
	5.8	23.9	31.6	29.7	4.5	1.3	.6					100.0	9.3

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

MAR  
MONTH

19  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.0	.0	1.9	2.6	.0	.0						5.8	12.1
NNE	.6	1.3	1.3	1.3	.6							5.2	9.8
NE	.6	3.2	2.6	.6								7.1	7.0
ENE	3.2		1.3	.6								5.2	5.1
E	2.6	4.9	.6									7.7	4.0
ESE	1.3	3.2										4.5	3.9
SE	.6	2.6	3.2									6.5	6.4
SSE		5.2	3.2	.6								9.0	7.0
S		2.6	5.2	2.6								10.3	8.9
SSW		1.3	2.6	.6								4.5	7.7
SW	.6	1.9	1.3	2.6								6.5	8.9
WSW		1.3	2.6	1.3								5.2	8.3
W	.6		3.2		.6	1.3						5.8	11.8
WNW		.0	1.3	2.6	1.3							5.8	12.4
NW			1.3	1.3								2.6	11.0
NNW		.0	.0									1.3	6.0
VARBL													
CALM												7.1	
	10.3	29.0	32.3	16.8	2.6	1.9						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

155

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

NAVY WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

18730 NORFOLK, VIRGINIA

73-77

YEARS

MAR

MONTH

ALL WEATHER

CLASS

22

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.6	1.9	3.9		1.3						7.7	12.8
NNE			1.3	.6								1.9	9.0
NE		1.9	1.9	1.3								5.2	8.0
ENE	.6	2.6	1.9									5.2	6.1
E	1.9	3.2			.6							5.8	4.9
ESE	1.3	.6										1.9	3.3
SE	1.3	1.3	.6									3.2	4.2
SSE	2.6	4.5	2.6	.6								10.3	5.4
S		7.1	7.1	5.2								19.4	8.5
SSW	1.3	1.9	3.2	.6	.6							7.7	8.1
SW		1.9	1.3	1.9	.6							5.2	9.0
WSW				1.9	.6							2.6	13.8
W		1.3	.6	3.2								5.2	10.4
WNW		.6	2.6	2.6		.6						6.5	12.0
NW				1.3								1.3	14.0
NNW	.6	1.3		1.3	.6							3.9	9.0
VARBL													
CALM												7.1	
	9.7	29.0	25.2	24.5	2.6	1.9						100.0	7.9

TOTAL NUMBER OF OBSERVATIONS

155

# SURFACE WINDS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	1.6	3.4	3.2	.4	.2						9.6	9.7
NNE	.4	1.8	2.1	1.2	.3	.1						5.9	8.9
NE	.6	2.6	2.0	.9	.2							6.3	7.3
ENE	1.0	1.9	1.6	.9								5.5	6.8
E	1.1	3.0	1.3	.1	.1							5.6	5.4
ESE	.6	1.3	.1	.1								2.3	4.6
SE	.6	.9	1.2	.3								3.0	6.6
SSE	.7	2.3	1.2	1.0	.1							5.3	7.1
S	.7	2.3	3.6	2.3	.4	.1						9.5	9.0
SSW	.4	2.1	3.3	2.6	.4	.1						9.0	9.4
SW	.3	1.6	1.8	2.6	.2	.2						6.7	10.1
WSW	.5	.6	1.9	1.4	.4	.1	.2					4.9	10.6
W	.1	1.2	2.2	2.7	.6	.4						7.1	11.3
WNW	.1	.6	1.9	2.1	.6	.1						5.4	11.5
NW	.1	.2	1.0	1.5	.2							3.0	10.9
NNW	.1	1.3	.8	1.6	.2							4.0	9.8
VARBL													
CALM												6.9	
	8.1	25.6	29.4	24.5	4.0	1.3	.2					100.0	8.3

TOTAL NUMBER OF OBSERVATIONS

1240



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7	.7	.7	1.3							4.0	11.5
NNE		2.7	1.3	.7								4.7	7.0
NE		.7										.7	6.0
ENE		1.3										1.3	5.5
E	1.3		2.0									3.3	6.4
ESE	.7											.7	1.0
SE		.7	.7									1.3	6.5
SSE	2.7	2.7										5.3	3.8
S	3.3	2.7	5.3	5.3								16.7	8.3
SSW	2.7	4.7	10.7	3.3								21.3	7.7
SW	.7	.7	1.3	2.0								4.7	9.7
WSW	.7	2.7	.7									4.0	5.3
W				2.0	.7							2.7	14.5
WNW			1.3		.7							2.0	12.3
NW	.7	2.7	2.0	3.3								8.7	8.5
NNW			4.7	2.7								7.3	10.1
VARBL													
CALM												11.3	
	13.3	22.0	30.7	20.0	2.7							100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

04  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			1.3	2.0								3.3	11.2
NNE		.7		.7								2.0	13.3
NE		1.3	1.3									2.7	6.8
ENE	.7	.7	1.3									2.7	6.8
E	1.3	.7		.7								2.7	6.3
ESE	.7	.7										1.3	4.5
SE	1.3	.7		.7								2.7	4.5
SSE	2.0	1.3										3.3	3.2
S	2.0	2.7	3.3	1.3								9.3	6.7
SSW	2.0	5.3	6.7	4.0	1.3							19.3	8.5
SW	2.7	.7	3.3	.7								7.3	6.5
WSW	2.7	1.3	.7	1.3	.7							6.7	7.0
W	2.0	2.7	1.3	2.0								8.0	7.1
WNW		.7		.7								1.3	10.5
NW	.7	1.3	5.3	2.0								9.3	8.8
NNW		1.3	3.3	2.0								6.7	8.8
VARBL													
CALM												11.3	
	18.0	22.0	26.0	18.0	2.7							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

150

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

APR  
MONTH

ALL WEATHER

CLASS

07

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3		2.7	2.0	.7							6.7	9.8
NNE		.7	2.0									2.7	8.0
NE	1.3	2.7	.7									4.7	5.3
ENE	1.3	.7	2.0									4.0	6.3
E	.7	1.3		.7								2.7	6.3
ESE	1.3	.7										2.0	3.0
SE		1.3	.7									2.0	6.0
SSE	1.3	.7										2.0	3.0
S	2.7	1.3	2.0	2.7								8.7	7.8
SSW	1.3	7.3	4.7	3.3	1.3							18.0	8.1
SW	2.0	2.0	3.3	1.3								8.7	6.9
WSW	2.0	1.3	3.3	2.0								8.7	8.0
W	.7	1.3	2.0	2.7	.7							7.3	9.8
WNW		.7	.7	.7								2.0	8.7
NW		2.7	2.0	2.7								7.3	8.8
NNW	.7	2.0	1.3	2.0	.7							6.7	9.7
VARBL													
CALM												6.0	
	16.7	26.7	27.3	20.0	3.3							100.0	7.4

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

APR

MONTH

ALL WEATHER

CLASS

10

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	3.3	3.3	2.7	1.3							11.3	8.9
NNE		3.3	2.0	.7								6.0	7.1
NE	.7	2.7	2.7									6.0	7.3
ENE		2.0	1.3									3.3	6.4
E			2.0									2.0	7.7
ESE		.7										.7	4.0
SE		2.0										2.0	5.0
SSE		1.3	.7	.7								2.7	7.5
S		1.3	2.0	1.3								4.7	9.0
SSW		2.0	6.7	3.3		.7						12.7	9.9
SW	.7	.7	.7	4.7								6.7	10.7
WSW		1.3	4.0	2.0								7.3	9.5
W	2.0	2.7	3.3	6.7	.7							17.3	9.5
WNW	.7	.7	1.3	.7	.7							4.0	9.8
NW	.7	2.7		1.3								4.7	7.1
NNW	.7	2.0	.7	3.3	.7							7.3	9.7
VARBL													
CALM												1.3	
	6.0	26.7	32.7	27.3	3.3	.7						100.0	8.7

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

APR  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.3	6.0	.7	1.3								11.3	5.7
NNE		2.7	2.0	.7								5.3	7.0
NE	.7	5.3	4.7									10.7	6.3
ENE	.7	2.0	4.0	.7								7.3	7.0
E		2.7	1.3	.7								4.7	7.0
ESE													
SE	.7											.7	3.0
SSE	1.3	.7	.7									2.7	5.3
S			3.3	2.0								5.3	10.6
SSW		.7	4.7	5.3								10.7	10.7
SW		1.3	2.0	1.3	1.3							6.0	11.4
WSW			.7	3.3								4.0	12.2
W	.7	4.0	3.3	5.3	1.3							14.7	10.3
WNW		.7	2.7	1.3	.7	.7						6.0	12.0
NW	.7		2.7	2.0								5.3	11.0
NNW	.7	.7	1.3	.7								3.3	8.0
VARBL													
CALM												2.0	
	8.7	26.7	34.0	24.7	3.3	.7						100.0	8.7

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

APR  
MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.3	.7	1.3	.7							4.7	9.4
NNE	1.3	1.3	2.0	2.0								6.7	7.8
NE	.7	2.7	2.0	.7								6.0	5.9
ENE	.7	4.7	2.0									7.3	5.7
E	.7	6.0	4.0	2.0								12.7	6.8
ESE	.7		3.3									4.0	8.0
SE	.7	.7	1.3									2.7	6.5
SSE			.7									.7	10.0
S			5.3	.7	.7							6.7	9.5
SSW			4.0	3.3	.7							8.0	11.6
SW	.7		4.7	1.3	1.3							8.0	11.3
WSW				3.3								3.3	12.2
W		3.3	4.7	2.7	1.3							12.0	9.8
WNW		.7	4.0	4.0		.7						9.3	11.3
NW		1.3	2.7	.7								4.7	9.1
NNW		.7	.7	.7								2.0	9.7
VARBL													
CALM												1.3	
	6.0	22.7	42.0	22.7	4.7	.7						100.0	8.9

TOTAL NUMBER OF OBSERVATIONS

150



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

19  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7		2.0	2.0	1.3							6.0	12.2
NNE	.7		.7	.7								2.0	8.3
NE		2.7	.7									3.3	5.8
ENE	2.7	3.3										6.0	3.8
E	4.7	2.0										6.7	3.0
ESE	4.7	4.7	1.3									10.7	4.1
SE	4.0	5.3	4.7									14.0	5.1
SSE		2.7	4.0	.7								7.3	7.5
S		2.7	5.3	.7								8.7	8.3
SSW	.7	2.7	3.3	.7								7.3	6.8
SW	.7	1.3	1.3									3.3	5.8
WSW		.7	.7									1.3	7.0
W		.7	1.3	3.3	1.3							6.7	12.7
WNW		1.3	.7	3.3								5.3	10.6
NW		.7		.7								1.3	8.5
NNW		.7	2.0	1.3								4.0	10.7
VARBL													
CALM												6.0	
	18.7	31.3	28.0	13.3	2.7							100.0	6.7

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

APR  
MONTH

ALL WEATHER  
CLASS

22  
HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7		1.3	2.7								4.7	11.0
NNE		1.3	.7	.7								2.7	7.8
NE			.7	.7								1.3	10.5
ENE	.7	.7	.7									2.0	4.3
E	2.0	2.0	.7									4.7	4.3
ESE	2.0	.7										2.7	3.3
SE	3.3	2.0	.7									6.0	3.9
SSE	5.3	6.0	2.0									13.3	4.4
S	1.3	6.0	11.3	6.7								25.3	8.7
SSW		2.7	2.7	2.0								7.3	9.0
SW	.7		1.3	.7								2.7	8.0
WSW		2.0		.7								2.7	7.3
W			2.0	4.0	.7							6.7	12.2
WNW				1.3								1.3	12.5
NW			2.0	2.7								4.7	11.4
NNW		.7	1.3	.7	1.3							4.0	12.5
VARBL													
CALM												8.0	
	16.0	24.0	27.3	22.7	2.0							100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

APR  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.4	1.6	1.8	.7							6.5	9.3
NNE	.2	1.6	1.3	.7	.1							4.0	7.8
NE	.4	2.2	1.6	.2								4.4	6.4
ENE	.8	1.9	1.4	.1								4.2	5.8
E	1.3	1.8	1.2	.5								4.9	5.8
ESE	1.2	.9	.6									2.7	4.5
SE	1.2	1.6	1.0	.1								3.9	5.0
SSE	1.6	1.9	1.0	.2								4.7	5.1
S	1.2	2.1	4.7	2.6	.1							10.7	8.5
SSW	.8	3.2	5.4	3.2	.4	.1						13.1	8.8
SW	1.0	.8	2.2	1.5	.3							5.9	9.0
WSW	.7	1.2	1.2	1.6	.1							4.7	8.5
W	.7	1.8	2.5	3.6	.8							9.4	10.2
WNW	.1	.6	1.3	1.5	.2	.2						3.9	11.0
NW	.3	1.4	2.1	1.9								5.7	9.1
NNW	.2	1.0	1.9	1.7	.3							5.2	9.9
VARB													
CALM												5.9	
	12.9	25.5	31.2	21.1	3.1	.2						100.0	7.7

TOTAL NUMBER OF OBSERVATIONS

1200

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.6	2.6	2.6								6.5	10.4
NNE		3.2										3.2	5.0
NIE			.6									.6	7.0
ENE	3.2	3.2		.6								7.1	4.5
E	3.2	.6										3.9	2.2
ESE	1.3	.6										1.9	3.3
SE	1.3	1.3	1.3									3.9	4.5
SSE	2.6	3.2	1.3									7.1	4.6
S	3.2	5.6	7.1	1.3								17.4	6.7
SSW	.6	3.2	7.1	3.2								14.2	8.5
SW	.6	3.2	.6	.6								5.2	6.1
WSW	1.3	1.9	1.3									4.5	5.4
W	.6	.6	1.3									2.6	5.5
WNW	.6	1.3	1.9									3.9	6.7
NW	.6		1.3									1.9	7.0
NNW		.6										.6	5.0
VARBL													
CALM												15.5	
	20.0	29.7	26.5	8.4								100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

04  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.6	1.9	3.2								5.8	11.2
NNE	1.3	1.3	1.3									3.9	4.5
NE	.6	2.6	1.3									4.3	5.9
ENE	.6	1.3	1.3		.6							3.9	8.2
E	2.6	1.3										3.9	3.3
ESE	1.3	.6	.6									2.6	4.5
SE	2.6	.6	1.3									4.3	4.0
SSE	.6	1.3	.6									2.6	4.8
S	1.9	6.5	2.6	.6								11.6	5.7
SSW	3.2	4.3	7.1	1.3								16.1	6.6
SW	.6	3.9	3.2	1.9								9.7	7.0
WSW		1.9										1.9	5.0
W		.6	1.3	.6								2.6	8.5
WNW	.6	1.9	1.3									3.9	5.7
NW	.6	1.3	1.3									3.2	6.4
NNW	.6	1.3	1.3	.6								3.9	7.2
VARBL													
CALM												15.5	
	17.4	31.6	26.5	8.4	.6							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

155

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

STATION 13750 NORFOLK, VIRGINIA STATION NAME  
YEARS 73-77 MONTH MAY HOURS (L.S.T.) 07

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.3	2.6	1.9								6.5	8.7
NNE		1.9	1.3									3.2	5.8
NE	.6	2.6	3.2									6.5	6.4
ENE	.6	.6	2.6	1.9								5.8	9.2
E	2.6	2.6										5.2	3.4
ESE	1.3		.6									1.9	4.0
SE	1.3	1.9		.6								3.9	5.2
SSE		.6	.6									1.3	6.5
S	.6	5.2	2.6	1.3								9.7	6.7
SSW	1.3	5.2	7.1	1.9								15.5	7.3
SW	1.9	1.3	3.9	1.3								8.4	7.3
WSW	.6	1.3	1.3	1.3								4.5	8.3
W	.6	1.3	3.2	1.3								6.5	7.9
WNW	1.3	1.3	1.3	.6								4.5	6.3
NW		1.3	1.9	.6								3.9	8.3
NNW		1.9	3.2	.6								5.8	8.0
VARL													
CALM												7.1	
	13.5	30.3	35.5	13.5								100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 155



AD-A060 543

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C  
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS) NORFOLK,--ETC(U)  
JUL 78

F/G 4/2

UNCLASSIFIED

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2 OF 4  
ADA  
060543



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

10  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	4.5	4.5	1.9								12.3	6.6
NNE	.6	2.6	1.9	1.3								6.5	7.7
NE	.6	5.2	1.9	.6	.6							9.0	6.9
ENE	.6	3.2	3.2	.6								7.7	6.8
E	.6	3.2	2.6									6.5	6.1
ESE		.6										.6	4.0
SE	.6	.6	.6									1.9	5.3
SSE			1.3									1.3	9.0
S	1.3	2.6	5.2	1.9								11.0	8.2
SSW		1.9	4.5	3.2								9.7	9.2
SW		.6	2.6	2.6								5.8	9.9
WSW		1.9	5.2	2.6								9.7	8.9
W		1.9	3.2	1.9								7.1	8.8
WNW	.6		1.9	1.3								3.9	8.7
NW	.6			1.3								1.9	8.7
NNW		.6	.6	1.9								3.2	10.6
VARBL													
CALM												1.9	
	7.1	29.7	39.4	21.3	.6							100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	3.2	1.9	.6								7.1	5.8
NNE	.6	5.8	5.2	1.9								13.5	7.6
NE	.6	5.8	2.6									9.0	5.6
ENE	1.9	2.6	5.8	1.3								11.6	7.2
E	.6	1.9	7.1									9.7	6.9
ESE			1.3									1.3	9.0
SE			1.9									1.9	8.3
SSE		.6	1.3	1.3								3.2	10.0
S		2.6	2.6	1.3								6.5	8.4
SSW	.6	.6	3.2	4.5								9.0	10.6
SW		1.3	1.9	1.9	.6							5.8	10.6
WSW	.6	.6	1.9	4.5								7.7	10.2
W	.6		2.6	2.6								5.8	10.0
WNW			1.3	1.3								2.6	12.3
NW				1.9								1.9	14.3
NNW		.6		1.3								1.9	9.7
VARBL												1.3	
CALM													
	7.1	25.8	40.6	24.5	.6							100.0	8.3

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.0		.6								3.2	6.0
NNE	1.3	.6	5.2									7.1	7.3
NE	.6	1.9	4.5	.6								7.7	7.4
ENE	2.6	7.7	5.6	1.3								17.4	6.3
E	1.9	7.1	3.2	1.3								13.5	5.9
ESE		1.3	1.3	1.3								3.9	8.5
SE	.6	1.9	4.5	.6								7.7	7.6
SSE			1.9	1.3								3.2	10.4
S		1.3	3.2	1.3	.6							6.5	9.8
SSW			3.2	3.9								7.1	11.1
SW			3.2	2.6								5.8	10.3
WSW			2.6	1.9								4.5	10.7
W		1.3	1.3	2.6								5.2	10.1
WNW			1.9	.6								2.6	9.0
NW				.6	.6							1.3	16.5
NNW		.6	.6	.6								1.9	8.3
VARBL													
CALM												1.3	
	7.1	26.5	42.6	21.3	1.3							100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

19  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.0		1.3								1.9	10.0
NNE	.6	1.3	.6									2.6	4.8
NE		2.6	2.6	.6								5.8	7.6
ENE	3.2	3.9	1.9									9.0	4.6
E	3.9	6.5	3.2									13.5	5.2
ESE	3.2	3.2	.6									7.1	3.9
SE	3.9	5.8	3.9									13.5	5.3
SSE	1.3	1.9	1.9									5.2	5.6
S	1.3	2.6	5.8	3.2								12.9	8.2
SSW	1.3	3.9	3.9									9.0	6.1
SW			3.2									3.2	7.6
WSW	1.9	1.9										3.9	3.7
W		.6										.6	6.0
WNW			1.3									1.3	7.5
NW		1.9	1.3	1.3		.6						5.2	10.4
NNW			1.3	.6								1.9	12.0
VARBL													
CALM												3.2	
	20.6	36.8	31.6	6.5	.6	.6						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

22  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6		.6	.6								1.9	8.3
NNE	.6	.6	1.9	1.3								4.5	8.9
NE	1.3	1.3	.6									3.2	4.4
ENE	1.9	1.3	2.6									5.8	5.2
E	.6	2.6	.6									3.9	5.2
ESE	2.6	1.9	1.3									5.8	4.0
SE	5.8	2.6										8.4	3.5
SSE	2.6	8.4	3.2	.6								14.8	5.2
S	2.6	5.2	6.5	3.9	.6							18.7	8.0
SSW		3.2	4.5	1.3								9.0	8.1
SW	.6		.6	.6								1.9	8.3
WSW		1.9	1.3									3.2	6.2
W			.6	.6								1.3	11.5
WNW			.6	.6								1.3	9.5
NW				.6								.6	14.0
NNW		.6	.6	1.3								2.6	10.8
VARBL													
CALM												12.9	
	19.4	29.7	25.8	11.6	.6							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.7	1.8	1.6								5.6	8.1
NNE	.6	2.2	2.2	.6								5.6	6.9
NE	.6	2.7	2.2	.2	.1							5.8	6.5
NNE	1.9	3.0	2.9	.7	.1							8.5	6.3
E	2.0	3.2	2.1	.2								7.5	5.3
ESE	1.2	1.0	.7	.2								3.1	4.9
SE	2.0	1.9	1.7	.2								5.7	5.3
SSE	.9	2.0	1.5	.4								4.8	6.1
S	1.4	4.0	4.4	1.9	.2							11.8	7.5
SSW	.9	2.3	5.1	2.4								11.2	8.2
SW	.5	1.3	2.4	1.5	.1							5.7	8.3
WSW	.6	1.5	1.7	1.3								5.0	8.0
W	.2	.8	1.7	1.2								4.0	8.8
WNW	.4	.6	1.5	.6								3.0	7.8
NW	.2	.6	.7	.8	.1	.1						2.5	9.7
NNW	.1	.6	1.0	.8	.1							2.7	9.0
VARBL												7.3	
CALA												100.0	6.7
	14.0	30.0	33.5	14.4	.6	.1							

TOTAL NUMBER OF OBSERVATIONS

1240

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			.7	.7								1.3	9.5
NNE			1.3	1.3	.7							3.3	12.4
NE		.7	.7	.7								2.0	8.3
ENE	1.3	2.0	1.3									4.7	5.7
E	1.3	2.0	.7									4.0	5.2
ESE	1.3											1.3	2.0
SE	2.0	.7										2.7	2.3
SSE	1.3	2.0	.7									4.0	4.3
S	2.0	8.0	2.7	1.3								14.0	5.8
SSW	1.3	8.7	10.0	2.0								22.0	7.2
SW	2.0	2.7	2.7	.7								8.0	5.7
WSW		2.0	.7	.7								3.3	6.8
W		1.3	.7	.7								2.7	8.3
WNW		.7	.7	.7								2.0	9.7
NW		1.3	1.3	.7								3.3	7.8
NNW			2.0									2.0	8.7
VARBL													
CALM												19.3	
	12.7	32.0	26.0	9.3	.7							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

04  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7										.7	5.0
NNE	.7	1.3	1.3	1.3	.7							5.3	9.6
NE		1.3	1.3	.7								3.3	7.8
ENE	.7	.7	.7									2.0	5.3
E	.7	2.0	.7									3.3	4.4
ESE	.7	.7	.7									2.0	5.3
SE	4.7											4.7	1.9
SSE	.7	2.0										2.7	3.8
S	1.3	4.0	1.3	1.3								8.0	5.9
SSW	4.0	5.3	8.7	.7								18.7	6.3
SW	.7	4.7	4.7									9.3	7.0
WSW	.7	4.7	2.7									8.0	5.8
W		2.0										2.0	5.3
WNW	.7	2.0	1.3									4.0	5.8
NW	.7	.7	.7	.7	.7							3.3	9.0
NNW		1.3	1.3	1.3								4.0	8.7
VARBL													
CALM												18.7	
	15.3	33.3	75.3	6.0	1.3							100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

150



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

JUN  
MONTH

ALL WEATHER

CLASS

07

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.7	1.3	2.0								5.3	8.9
NNE		1.3	2.7	1.3								5.3	8.9
NE		1.3	2.0									3.3	7.6
ENE		1.3	.7									2.0	6.7
E	1.3	3.3	1.3									6.0	4.8
ESE	.7	1.3		.7								2.7	6.0
SE	2.0	1.3	.7									4.0	3.8
SSE	.7	.7	1.3									2.7	5.8
S	1.3	3.3	5.3	.7								10.7	6.4
SSW	2.0	2.7	5.3	1.3								11.3	7.1
SW		4.7	6.7	.7								12.0	7.4
WSW	2.7	3.3	3.3									9.3	5.6
W	.7	2.7	2.0									5.3	6.3
WNW		2.0	.7	.7								3.3	6.6
NW	1.3	.7	2.0	.7								4.0	7.2
NNW	.7	2.7		2.7								6.0	7.6
VARBL													
CALM												6.7	
	14.7	32.7	35.3	10.7								100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

JUN  
MONTH

ALL WEATHER

CLASS

10

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.0	2.7	2.0	.7								9.3	5.3
NNE	.7	4.0	1.3	3.3								9.3	8.0
NE	.7	2.7	2.7	.7								6.7	7.6
ENE	.7	4.0	2.7									7.3	6.7
E		2.7	1.3	.7								4.7	7.1
ESE			.7									.7	8.0
SE	.7											.7	3.0
SSE	.7		.7									2.0	7.7
S	1.3	3.3	2.0	1.3								8.0	6.7
SSW		1.3	4.0	2.0								7.3	9.0
SW		6.7	4.0	2.7								13.3	7.3
WSW	1.3	1.3	4.0	2.0								8.7	7.8
W	1.3	6.0	4.7	.7								12.7	6.3
WNW	.7		.7	.7								2.0	7.7
NW	.7		1.3	.7								2.7	9.3
NNW		.7	1.3									2.0	8.0
VARBL													
CALM												2.7	
	12.7	35.3	33.3	16.0								100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

JUN  
MONTH

ALL WEATHER

CLASS

13

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	4.0	2.7	.7	.7							10.0	6.5
NNE		4.0	4.0									8.0	7.0
NE		3.3	1.3	1.3								6.0	7.7
ENE		4.7	9.3	2.0								16.0	7.8
E		2.0	3.3	1.3	.7							7.3	8.8
ESE	.7	1.3	.7									2.7	5.0
SE		.7										.7	6.0
SSE		.7	1.3									2.0	6.7
S		1.3	2.0	1.3								4.7	8.6
SSW	.7	1.3	4.0	2.0								8.0	8.4
SW		.7	3.3	4.7	.7							9.3	11.0
WSW	2.0	1.3	.7									4.0	4.3
W		2.0	4.7	4.0								10.7	9.3
WNW		1.3	1.3	1.3								4.0	8.3
NW	.7	.7										1.3	3.0
NNW				2.0								2.0	12.7
VARBL													
CALM												3.3	
	6.0	29.3	38.7	20.7	2.0							100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

150



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.3		3.3								4.7	10.0
NNE		3.3	1.3	.7								5.3	7.0
NE		1.3	2.7	2.7								6.7	9.6
ENE	2.0	9.3	4.0	.7								16.0	5.9
E	.7	5.3	6.0	.7								12.7	7.1
ESE	.7	.7	3.3		.7							5.3	8.3
SE	.7	.7	2.0									3.3	6.6
SSE		1.3	.7									2.0	7.0
S	.7	2.7	2.0	3.3								8.7	8.7
SSW		2.0	7.3	1.3	.7							11.3	9.0
SW		.7	3.3	1.3								5.3	9.9
WSW		3.3	2.7	.7	.7							7.3	8.5
W		2.0	2.0	1.3								5.3	8.1
WNW		1.3	.7									2.0	5.7
NW													
NNW		.7	1.3									2.0	8.0
VARBL													
CALM												2.0	
	4.7	36.0	39.3	16.0	2.0							100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

150

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

19  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7		2.7	1.3								4.7	9.1
NNE	.7	1.3	.7									2.7	4.8
NE		2.0	1.3	2.0								5.3	8.6
ENE		.7	2.0	2.0								4.7	9.4
E	6.0	5.3	2.7									14.0	4.3
ESE	.7	3.3	2.7	.7								7.3	6.4
SE	1.3	8.0	3.3									12.7	5.3
SSE		4.7	2.7									7.3	6.2
S	.7	4.0	9.3	1.3								15.3	7.8
SSW	.7	2.7	5.3	1.3								10.0	7.8
SW		2.7	2.0	.7								5.3	7.1
WSW		2.0										2.0	4.7
W		.7	.7									1.3	8.0
WNW			2.0									2.0	9.0
NW		.7	.7									1.3	6.0
NNW			.7	.7								1.3	12.0
VARBL													
CALM												2.7	
	10.7	38.0	38.7	10.0								100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

22  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.3	.7	2.0								4.0	9.5
NNE		.7	1.3	1.3								3.3	9.2
NE	.7		.7	1.3	.7							3.3	11.0
ENE	.7	.7		.7								2.0	6.0
E	1.3	4.0										5.3	4.3
ESE	2.0	2.7										4.7	3.3
SE	2.0	2.0										4.0	3.3
SSE	3.3	6.7	2.7									12.7	4.6
S	2.7	6.0	12.0	2.0								22.7	7.3
SSW	.7	2.0	6.7	1.3								10.7	8.3
SW		1.3	2.0									3.3	7.0
WSW	.7	.7	.7									2.0	5.7
W			1.3									1.3	8.0
WNNW						.7						.7	22.0
NW		1.3	.7	.7								2.7	6.5
NNW			1.3	1.3	.7							3.3	12.0
VARB													
CALM												14.0	
	14.0	29.3	30.0	10.7	1.3	.7						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

150



# SURFACE WINDS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.3	1.2	1.3	.1							5.0	7.6
NNE	.2	2.0	1.7	1.2	.2							5.3	8.2
NE	.2	1.6	1.6	1.2	.1							4.6	8.5
ENE	.7	2.9	2.6	.7								6.8	6.9
E	1.4	3.3	2.0	.3	.1							7.2	5.8
ESE	.8	1.2	1.0	.2	.1							3.3	5.8
SE	1.7	1.7	.7									4.1	4.2
SSE	.8	2.2	1.2	.1								4.4	5.4
S	1.2	4.1	4.6	1.6								11.5	7.1
SSW	1.2	3.2	6.4	1.5	.1							12.4	7.6
SW	.2	3.0	3.6	1.3	.1							8.2	7.8
WSW	.9	2.3	1.8	.4	.1							5.6	6.5
W	.2	2.1	2.0	.8								5.2	7.5
WNW	.2	.9	.9	.4		.1						2.5	7.9
NW	.4	.6	.8	.4	.1							2.3	7.4
NNW	.1	.7	1.0	1.0	.1							2.8	9.3
VARBL													
CALM												8.7	
	11.3	33.2	33.3	12.4	.9	.1						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 1200

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.6										.6	4.0
NNE		.6		.6								1.3	10.5
NE		1.3			.6							1.9	9.7
ENE	.6	1.3										1.9	4.3
E		.6										.6	4.0
ESE													
SE	.6	.6										1.3	3.5
SSE	3.2	3.9	.6									7.7	4.2
S	3.9	5.2	3.2	1.3								13.5	5.9
SSW		6.5	13.5	3.2								23.2	8.1
SW	1.9	3.9	1.3	.6	.6							8.4	6.6
WSW		2.6	2.6									5.2	5.8
W	1.9	.6	.6	.6								3.9	5.0
WNW	.6	.6										1.3	3.5
NW	.6		1.3									1.9	6.0
NNW	.6	.6	1.3									2.6	6.5
VARBL													
CALM												24.5	
	14.2	29.0	24.5	6.5	1.3							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

04  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.6	.6	1.9	1.3								4.5	8.1
NNE			1.3									1.3	8.5
NE	.6	2.6		1.3								4.5	7.0
ENE	1.3		1.3									2.6	5.0
E	.6		.6									1.3	4.5
ESE	.6											.6	2.0
SE													
SSE	1.9	1.3	.6									3.9	4.0
S	2.6	3.2	1.9									7.7	4.8
SSW	3.2	5.2	12.3	1.3								21.9	6.9
SW	.6	4.5	7.1									12.3	6.8
WSW	3.2	5.2	.6	.6								9.7	4.9
W	.6	1.9	1.9									4.5	6.1
WNW		1.3										1.3	4.5
NW	.6	.6	2.6									3.9	6.8
NNW			.6									.6	7.0
VARBL													
CALM												19.4	
	16.8	26.5	32.9	4.5								100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

07  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.3	.6	1.3								3.9	8.2
NNE		2.6	1.3	1.3								5.2	8.5
NE	.6	2.6	2.6	.6								6.5	6.8
ENE	1.9	1.3	1.3									4.5	4.4
E													
ESE	.6		.6									1.3	5.0
SE		.6										.6	4.0
SSE	2.6		.6									3.2	3.8
S	.6	1.9	2.6	.6								5.8	6.6
SSW	1.3	5.2	7.7	.6								14.8	7.0
SW	3.2	5.8	7.7	.6								17.4	6.5
WSW	1.3	4.5	5.8									11.6	6.2
W	2.6	4.5	2.6									9.7	5.1
WNW		.6	.6									1.3	7.0
NW		1.9	.6									2.6	5.5
NNW		1.3	.6	.6								2.6	7.5
VARB													
CALM												9.0	
	15.5	34.2	35.5	5.8								100.0	5.8

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

JUL

MONTH

ALL WEATHER

CLASS

10

HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	3.9	3.9	2.6								12.3	6.8
NNE	.6	4.9	3.2	.6								9.0	6.8
NE	1.3	2.6	2.6									6.5	5.8
ENE	.6	3.2	2.6	.6								7.1	6.5
E			.6									.6	8.0
ESE													
SE				.6								.6	12.0
SSE	.6		.6									1.3	5.0
S	1.3	2.6	1.3	.6								5.8	6.0
SSW		2.6	5.8	1.9								10.3	8.5
SW	1.3	3.2	4.5	1.9								11.0	7.5
WSW	.6	5.8	3.9	1.3								11.6	6.6
W	1.3	5.2	2.6	.6								9.7	6.3
WNW	1.3		1.3									2.6	5.0
NW		.6	.6									1.3	6.5
NNW	1.9	1.9	1.9									5.8	4.9
VARBL													
CALM												4.5	
	12.9	36.1	35.5	11.0								100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	5.2	5.2	1.3								12.3	6.9
NNE	1.9	3.2	5.2	1.9								12.3	7.0
NE	.6	5.8	1.9									8.4	5.4
ENE	.6	2.6	5.2	1.3								9.7	7.6
E	1.3	.6	1.3									3.2	5.4
ESE		.6										.6	6.0
SE		.6										.6	6.0
SSE		.6	1.9									2.6	8.0
S		1.9	1.3	1.3								4.5	8.0
SSW		1.3	7.1	1.3								9.7	8.9
SW		1.3	5.8	3.2								10.3	9.1
WSW		2.6	3.2	1.9								7.7	8.0
W		6.2	2.6									9.0	5.6
WNW	.6	1.9	1.3									3.9	6.2
NW			1.3									1.3	8.0
NNW	1.3	.6	1.3									3.2	5.4
VARBL													
CALM												.6	
	7.1	35.3	44.5	12.3								100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

16

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.3	1.9									3.9	6.2
NNE	.6	1.9	3.2	1.3								7.1	7.5
NE	1.9	5.2	4.5									11.6	5.8
ENE		4.5	3.9	.6								9.0	6.9
E	1.9	7.7	3.9									13.5	5.8
ESE	1.9	2.6	.6									5.2	4.5
SE			2.6	.6								3.2	9.2
SSE		1.3			.6							1.9	8.3
S		2.6	5.8	.6								9.0	7.9
SSW		.6	5.8	5.2								11.6	9.8
SW		2.6	3.9	1.9								8.4	8.4
WSW	.6	.6	4.5									5.8	7.3
W	.6	.6	1.3	.6								3.2	7.4
WNW	.6	1.9	.6									3.2	5.6
NW			.6	.6								1.3	10.0
NNW													
VARBL													
CALM												1.9	
	9.0	33.5	43.2	11.6	.6							100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

19  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.3	.6	.6								2.6	8.5
NNE		1.3										1.3	5.5
NE		.6	1.9									2.6	7.3
ENE	1.9	5.2	1.9									9.0	4.7
E	5.2	3.9	1.3									10.3	3.8
ESE	1.3	2.6	1.3									5.2	4.5
SE	3.2	7.1	3.9									14.2	5.4
SSE	1.9	5.2	3.2									10.3	5.7
S		3.2	5.8	1.3								10.3	7.8
SSW	.6	2.6	5.8	1.3								10.3	8.1
SW	.6	4.5	3.2									8.4	5.8
WSW	1.9	2.6										4.5	3.9
W		.6										.6	6.0
WNW		1.3										1.3	4.0
NW		.6	.6	.6								1.9	8.3
NNW													
VARBL													
CALM												7.1	
	16.8	42.6	29.7	3.9								100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

22  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			1.3	.6								1.9	9.7
NNE				.6								.6	11.0
NE	.6	.6										1.3	3.5
ENE	1.9	1.9	.6									4.5	4.4
E	1.9	1.9	.6									4.5	4.4
ESE													
SE	1.3	2.0										3.9	3.8
SSE	8.4	5.0	2.0									16.8	4.2
S	3.2	7.1	9.0	1.3								20.6	6.8
SSW	.6	4.5	4.5	1.9								11.6	7.6
SW		2.0	2.0									5.2	5.9
WSW	1.3	.6	1.3	.6								3.9	6.7
W	.6	2.0		.6	1.3							5.2	9.1
WNW				.6								.6	12.0
NW													
NNW	.6											.6	3.0
VARBL													
CALM												16.7	
	20.6	30.3	22.0	6.5	1.3							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

155



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.8	1.9	1.0								5.2	7.2
NNE	.4	1.8	1.8	.8								4.8	7.4
NE	.7	2.7	1.7	.2	.1							5.4	6.2
ENE	1.1	2.5	2.1	.3								6.0	5.9
E	1.4	1.9	1.0									4.3	4.9
ESE	.6	.7	.3									1.6	4.5
SE	.6	1.5	.8	.2								3.1	5.7
SSE	2.3	2.3	1.3		.1							6.0	4.9
S	1.5	3.5	3.9	.9								9.7	6.7
SSW	.7	3.5	7.8	2.1								14.2	7.9
SW	1.0	3.5	4.5	1.0	.1							10.2	7.1
WSW	1.1	3.1	2.7	.6								7.5	6.2
W	1.0	2.6	1.5	.3	.2							5.7	6.2
WNW	.4	1.0	.5	.1								1.9	5.6
NW	.2	.5	1.0	.2								1.8	7.0
NNW	.6	.6	.7	.1								1.9	5.7
VARBL													
CALA												10.7	
	14.1	33.5	33.5	7.7	.4							100.0	5.8

TOTAL NUMBER OF OBSERVATIONS

1240

# SURFACE WINDS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

YEARS

73-77

AUG

MONTH

ALL WEATHER

CLASS

01

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			1.3	.6								1.9	9.7
NNE			1.3									1.3	10.0
NE	.6	1.3	.6									2.6	4.5
ENE	.6	1.3	1.3									3.2	5.2
E	5.2	1.3										6.5	2.9
ESE													
SE	.6											.6	2.0
SSE	1.9	.6	.6									3.2	4.0
S	3.2	7.7	5.2									16.1	5.3
SSW	3.2	6.5	8.4	1.3								19.4	6.5
SW	.6	4.2	5.2	.6								11.0	7.1
WSW	.6	2.6	1.3									4.5	5.9
W	.6	.6	1.3									2.6	6.8
WNW		1.3										1.9	5.7
NW	.6	.6	.6	.6								2.6	7.3
NNW	.6											.6	3.0
VARBL													
CALM												21.9	
	18.7	29.0	27.1	3.2								100.0	4.6

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

04  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			.6	1.3								1.9	12.0
NNE		.6	1.3	.6								2.6	8.8
NE	.6	1.9	1.9	.6								5.2	7.5
ENE	.6	.6	1.3									2.6	5.3
E	1.9	.6										2.6	3.0
ESE	.6											.6	2.0
SE	1.3											1.3	3.0
SSE	1.3			.6								1.9	6.3
S	5.8	4.5	2.6	.6								13.5	4.7
SSW	1.3	5.2	8.4	.6								15.5	6.7
SW	3.2	7.1	7.7									18.1	5.9
WSW	1.9	1.3	2.6									5.8	6.1
W		1.3	.6									1.9	5.3
WNW	.6	1.3										1.9	4.0
NW	.6	.6	2.6									3.9	6.7
NNW			.6									.6	10.0
VARBL													
CALM												20.0	
	20.0	25.2	30.3	4.5								100.0	4.8

TOTAL NUMBER OF OBSERVATIONS

155



# SURFACE WINDS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

AUG

MONTH

07

HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.6	1.3	3.2								5.8	9.9
NNE			3.9	1.9								5.8	10.0
NE	.6	.6	2.6									3.9	7.5
ENE	1.3	1.3	1.9									4.5	5.3
E	1.9	.6										2.6	2.8
ESE													
SE		.6										.6	4.0
SSE	.6	1.9										2.6	4.0
S	2.6	4.5	3.2									10.3	5.3
SSW	1.3	5.2	5.2	1.3								12.9	7.2
SW	1.9	6.5	5.8	1.3								15.5	6.8
WSW	1.9	3.2	1.3	.6								7.1	5.3
W	.6	1.9	1.9									4.5	6.0
WNW		.6		.6								1.3	8.5
NW		.6	1.9									2.6	8.0
NNW	1.3	3.2	.6									5.2	5.0
VARBL													
CALM												14.8	
	14.8	31.6	29.7	9.0								100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

72-77  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

10  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	5.8	5.2	2.0	2.6								16.1	5.7
NNE		1.9	3.2									7.1	8.5
NE	.6	1.9	3.8	.6								9.0	7.9
ENE	1.3	1.9	3.2									6.5	5.9
E	1.9		.6									2.6	3.8
ESE	.6		.6									1.3	5.0
SE													
SSE			.6									.6	8.0
S		1.3	.6									1.9	6.7
SSW	1.9	3.2	7.7	2.6								15.5	7.5
SW	1.3	1.3	3.9	1.3								7.7	7.5
WSW	1.3	4.5	6.5	.6								12.9	7.0
W		4.5	3.9	.6								9.0	6.9
WRW													
NW		.6										.6	4.0
NNW	1.3	1.9	1.3	.6								5.2	6.4
VARBL													
CALM												3.9	
	16.1	28.4	42.6	9.0								100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	6.5	3.2	.6								12.3	5.9
NNE	1.3	3.9	3.9	1.3								10.3	6.8
NE	1.3	3.2	5.2	.6								10.3	6.8
ENE	.6	4.5	4.5	.6								10.3	7.2
E	1.3	1.9	1.3	.6								5.2	6.3
ESE													
SE			.6									.6	8.0
SSE	.6		.6									1.3	5.0
S		1.9	3.9	.6								6.5	7.8
SSW		1.9	5.8	3.9								11.6	9.4
SW	.6	1.3	1.3	.6	.6							4.3	8.0
WSW	.6	1.3	5.8	2.6								10.3	8.8
W	1.3	1.3	3.2	.6								6.5	7.0
WNW		.6	1.3									1.9	7.3
NW													
NNW	1.3		.6	.6		.6						3.2	9.6
VARB													
CALM												5.2	
	11.0	28.4	41.3	12.9	.6	.6						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6		1.9	1.3								3.9	8.8
NNE			1.9	.6								2.6	9.3
NE		4.5	5.2	1.9								11.6	7.5
ENE	1.9	5.8	6.5									14.2	6.3
E	3.2	10.3	3.2	1.9								18.7	6.0
ESE	.6	.6	1.3									2.6	5.8
SE		2.6	3.2	.6								6.5	7.2
SSE			1.3									1.3	8.0
S	.6	1.9	3.2	1.3								7.1	7.9
SSW		1.9	5.8	3.9								11.6	9.4
SW		.6	1.3	.6								2.6	8.3
WSW	.6	1.3	3.9	1.3								7.1	8.0
W		1.3	1.9									3.2	6.6
WNW	.6			.6								1.3	7.0
NW		.6		.6								1.3	9.0
NNW	.6	.6	.6									1.9	5.7
VARB													
CALM												2.6	
	9.0	32.3	41.3	14.8								100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

19  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.6	1.3	.6								2.6	8.8
NNE	.6		.6	.6								1.9	8.0
NE			1.3	.6								1.9	8.7
ENE	3.2	2.6	2.6									8.4	4.6
E	5.2	6.5	2.6									14.2	4.6
ESE	2.6	3.2										5.8	3.8
SE	5.8	6.5	3.2									15.5	4.7
SSE	1.9	3.9	1.9									7.7	5.2
S	.6	5.2	5.2	1.3								12.3	6.6
SSW		5.2	6.5	1.3								12.9	7.7
SW		.6	1.9									2.6	8.0
WSW		3.2										3.2	5.2
W			1.3									1.3	8.0
WNW	.6		.6									1.3	5.5
NW		.6										.6	6.0
NNW			.6									.6	10.0
VARBL													
CALM												7.1	
	20.6	38.1	29.7	4.5								100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

22  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.6	.6									1.9	4.3
NNE		1.3	.6									1.9	6.7
NE	.6	1.9	2.6									5.2	6.9
ENE	.6	2.6	.6									3.9	5.8
E		2.6	.6									3.2	5.2
ESE	1.3	2.6										3.9	4.2
SE	6.5											6.5	2.3
SSE	5.8	5.6	1.3									12.9	4.0
S	3.2	7.1	7.1	.6								18.1	5.8
SSW	2.6	3.2	9.0	.6								15.3	7.0
SW	.6	.6	3.9									4.3	7.9
WSW		2.6	.6	.6								4.3	6.0
W		.6										.6	5.0
WNW			.6									.6	9.0
NW			1.3									1.3	8.0
NNW		.6										.6	6.0
VARB													
CALM												14.8	
	21.9	32.3	29.0	1.9								100.0	4.8

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

ALL  
MONTH

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.7	1.0	1.3								5.8	7.1
NNE	.2	1.0	2.3	.6								4.2	8.2
NE	.6	1.9	3.1	.6								6.2	7.2
ENE	1.3	2.6	2.7	.1								6.7	5.9
E	2.6	3.0	1.0	.3								6.9	4.9
ESE	.7	.9	.2									1.8	4.3
SE	1.8	1.2	.9	.1								4.0	4.6
SSE	1.5	1.5	.6	.1								4.0	4.7
S	2.0	4.3	3.9	.6								10.7	5.9
SSW	1.3	4.0	7.1	1.9								14.4	7.5
SW	1.0	2.6	3.9	.6	.1							8.3	6.9
WSW	1.0	2.5	2.7	.7								6.9	6.9
W	.3	1.5	1.6	.2								3.7	6.6
WNW	.2	.6	.3	.2								1.3	6.4
NW	.2	.3	.6	.2								1.6	7.3
NNW	.6	.6	.6	.2		.1						2.3	6.6
VARBL													
CALM												11.3	
	16.5	30.6	33.9	7.5	.1	.1						100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

1240

DIRNAVOCEANMET SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			2.7	4.0	.7							7.3	11.7
NNE	.7	.7	2.0	.7	.7							4.7	9.4
NE		.7	2.0	.7								3.3	8.8
ENE			1.3	.7								2.0	8.7
E	2.0	3.3	.7									6.0	4.3
ESE	1.3											1.3	2.5
SE	.7	1.3	.7									2.7	5.5
SSE	5.3	.7	.7									6.7	3.2
S	1.3	6.0	7.3	.7								15.3	6.6
SSW	2.0	4.0	6.0	2.0								14.0	6.8
SW	2.7	2.0	2.7									7.3	4.7
WSW	.7	1.3	2.0									4.0	6.3
W	.7	1.3										2.0	3.3
WNW			.7	.7								1.3	11.0
NW			1.3	.7								2.0	10.0
NNW	.7	1.3	2.0	2.7								6.7	9.5
VARBL													
CALM												13.3	
	18.0	22.7	32.0	12.7	1.3							100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

SEP

MONTH

04

HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.3	.7	3.3	.7							6.0	11.4
NNE		2.0	3.3	1.3								6.7	8.1
NE			.7	.7								1.3	10.5
ENE	.7	.7	2.0	1.3								4.7	8.0
E	.7	3.3	2.7	.7								7.3	6.6
ESE	2.0	.7										2.7	3.3
SE		.7	.7									1.3	6.0
SSE	.7	2.7										3.3	4.2
S	2.7	2.0	3.3	1.3								9.3	6.4
SSW	3.3	2.0	4.7	1.3								11.3	6.4
SW	1.3	4.7	2.0									8.0	5.5
WSW	.7	4.0	.7									5.3	5.1
W		1.3										1.3	6.0
WNW		.7		.7								1.3	9.0
NW		.7	2.0	1.3								4.0	10.0
NNW	.7	.7	2.7	2.0								6.0	9.7
VARBL													
CALM												20.0	
	12.7	27.3	25.3	14.0	.7							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

150



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

07  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.3	2.7	4.0	.7							9.3	10.4
NNE	.7	.7	2.0									3.3	7.0
NE	.7	.7	3.3	3.3								8.0	9.2
ENE	1.3	.7	3.3									5.3	6.8
E		2.7	.7	1.3								4.7	6.9
ESE	.7			.7								1.3	7.5
SE	1.3		.7									2.0	4.7
SSE	3.3	2.0	1.3									6.7	4.2
S	1.3	.7	3.3									5.3	6.1
SSW	4.0	3.3	5.3	.7								13.3	6.0
SW	1.3	4.0	.7									6.0	5.1
WSW	.7	5.3	.7									6.7	5.2
W		2.7										2.7	5.8
WNW	.7	.7										1.3	3.5
NW		2.0	2.7	.7								5.3	8.4
NNW			1.3	2.0								3.3	10.4
VARBL													
CALM												15.3	
	16.7	26.7	26.0	12.7	.7							100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

10  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	4.0	5.3	2.0	.7							12.7	8.4
NNE		2.0	3.3	3.3								8.7	9.3
NE		1.3	3.3									4.7	7.4
ENE	.7	2.7	6.0	1.3								10.7	7.6
E	2.0	3.3	.7	1.3								7.3	5.7
ESE													
SE		.7	1.3	1.3								3.3	8.6
SSE		.7		.7								1.3	8.0
S	.7	2.0	2.0	2.0								6.7	8.2
SSW		3.3	3.3	1.3								8.0	7.5
SW	.7	3.3	4.7	.7	.7							10.0	7.7
WSW	.7	2.7	3.3									6.7	6.8
W	3.3	3.3	2.7									9.3	5.4
WNW			.7	.7								1.3	10.0
NW		.7	.7	.7								2.0	9.3
NNW	2.0	1.3	2.7									6.0	6.0
VARBL													
CALM												1.3	
	10.7	31.3	40.0	15.3	1.3							100.0	7.4

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.0	2.7	3.3								9.3	8.7
NNE	2.0	7.3	6.0	4.0								19.3	7.4
NE	.7	3.3	2.0	.7								6.7	6.6
ENE		4.0	5.3	1.3								10.7	7.9
E		2.7	4.7	.7								8.0	7.3
ESE	.7	.7		.7								2.0	6.3
SE													
SSE		.7	2.0									2.7	8.5
S		2.0	2.0	3.3								7.3	9.5
SSW			2.0	2.0								4.0	10.8
SW		1.3	2.7	.7								4.7	9.0
WSW	.7	4.7	4.0		.7							10.0	7.3
W	.7	4.0	4.0									8.7	6.0
WNW		2.0	.7									2.7	5.5
NW		.7	1.3									2.0	8.0
NNW				.7								.7	11.0
VARBL													
CALM												1.3	
	6.0	35.3	39.3	17.3	.7							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

150



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7	3.3	.7								5.3	8.5
NNE	1.3	3.3	2.7	.7								8.0	6.5
NE	1.3	1.3	2.7	1.3								6.7	7.2
ENE		6.7	2.7	2.7								12.0	7.2
E	3.3	5.3	8.7									17.3	6.2
ESE		.7	1.3									2.0	8.0
SE		1.3	.7	.7								2.7	7.0
SSE												2.0	8.0
S		4.0	7.3	.7								12.0	7.6
SSW		2.0	1.3	2.0								5.3	9.1
SW	.7	1.3	2.7	2.0								6.7	9.0
WSW		2.7	.7									3.3	5.4
W	1.3	2.7	3.3									7.3	6.4
WNW	.7		.7									1.3	5.0
NW		.7	.7	.7								2.0	9.3
NNW	.7	.7	.7	.7								2.7	7.0
VARBL													
CALM												3.3	
	10.0	33.3	41.3	12.0								100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

2

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

SEP  
MONTH

19

HOURE (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.7	3.3	.7								4.7	8.1
NNE	.7	.7	2.0									3.3	6.4
NE	.7	2.0	.7	.7								4.0	6.5
ENE	2.7	2.0	2.0	1.3								8.0	6.0
E	4.0	7.3										11.3	4.0
ESE	4.0	6.0	.7									10.7	3.8
SE	4.7	1.3	2.0									8.0	4.2
SSE	4.0	6.7	.7									11.3	4.2
S	1.3	4.7	4.0									10.0	6.0
SSW	.7	2.7	4.0	.7								8.0	6.8
SW	1.3	2.0										3.3	3.3
WSW	1.3		.7									2.0	4.0
W		2.7										2.7	4.8
WNW													
NW	.7											.7	3.0
NNW		.7	2.0	1.3								4.0	9.0
VARBL													
CALM												8.0	
	26.0	39.3	22.0	4.7								100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

150

2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

SEP  
MONTH

ALL WEATHER

CLASS

22

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7	4.0	.7								6.0	8.1
NNE	.7	.7	.7	.7								2.7	7.3
NE	.7	.7	1.3									2.7	5.8
ENE	2.0	2.0	2.7									6.7	6.3
E	1.3	2.0	1.3									4.7	4.9
ESE	2.0	.7										2.7	2.5
SE	4.7	.7	.7									6.0	3.4
SSE	2.7	4.0	2.0									8.7	4.8
S	5.3	7.3	6.0	1.3								22.0	6.0
SSW	1.3	2.0	2.7	.7								6.7	6.7
SW	.7	1.3	.7									2.7	5.5
WSW	.7											.7	2.0
W		2.7	.7									3.3	6.0
WNW		1.3	.7	.7								2.7	8.5
NW													
NNW		.7	1.3	2.7								4.7	10.0
VARBL													
CALM												17.3	
	22.7	26.7	26.7	6.7								100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

150



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.3	3.1	2.3	.3							7.6	9.4
NNE	.7	2.2	2.7	1.3	.1							7.1	7.7
NE	.5	1.2	2.0	.9								4.7	7.6
ENE	.9	2.3	3.2	1.1								7.5	7.2
E	1.7	3.7	2.4	.5								8.3	5.7
ESE	1.3	1.1	.2	.2								2.8	4.3
SE	1.4	.7	.8	.2								3.2	5.1
SSE	2.0	2.2	1.1	.1								5.3	4.7
S	1.6	3.6	4.7	1.2								11.0	6.8
SSW	1.4	2.4	3.7	1.3								8.8	7.0
SW	1.1	2.5	2.0	.4	.1							6.1	6.5
WSW	.7	2.6	1.5		.1							4.8	6.0
W	.7	2.6	1.3									4.7	5.7
WNW	.2	.9	.4	.3								1.5	7.4
NW	.1	.6	1.1	.5								2.2	8.9
NNW	.5	.7	1.6	1.5								4.2	8.8
VARBL												10.0	
CALM												100.0	6.2
	15.3	30.3	31.8	11.9	.6							100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

1200

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

OCT  
MONTH

ALL WEATHER

CLASS

01

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.6	1.9	2.6	1.3							9.0	10.1
NNE		.6	.6	3.9	1.3	.6						7.1	14.7
NE	.6	1.9	2.6	1.9	.6							7.7	8.7
ENE	1.3	1.3	1.3									3.9	5.2
E		1.3	.6									1.9	6.0
ESE		1.9										1.9	4.7
SE	.6	.6	.6									1.9	4.3
SSE	3.9	1.3	1.3									6.5	4.0
S	2.6	1.3	3.9		.6							8.4	6.7
SSW	.6	2.6	.6	.6								4.5	6.1
SW	1.3	1.9	2.6	.6								6.5	6.3
WSW	1.9	3.2	1.3	1.3								7.7	5.9
W		1.3	1.9	.6								3.9	7.3
WNW			1.9									1.9	8.3
NW	.6		1.3	1.9								3.9	11.3
NNW	.6	1.9	2.6	1.3								6.5	8.1
VARBL													
CALM												16.8	
	14.8	23.9	25.2	14.8	3.9	.6						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

04  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.3	1.9	5.2	.6							9.7	11.5
NNE	1.3	.6	2.6	1.9	.6							7.1	10.2
NE	.6	1.3	2.6	1.9	1.3							7.7	10.5
ENE	.6	1.3	1.3									3.2	5.6
E		1.3	.6	.6								2.6	8.0
ESE		.6	.6									1.3	6.0
SE	.6											.6	2.0
SSE	3.2	1.9										5.2	3.1
S	1.3	1.3	1.9	.6								5.2	6.4
SSW	1.3	3.9	1.9	1.3								8.4	6.4
SW	.6	3.2	1.3	.6								5.8	6.2
WSW	.6	2.6	.6	.6								4.5	5.7
W	.6	.6	1.3	1.9								4.5	8.4
WNW	.6	1.9	1.3									3.9	5.3
NW		1.3	1.3	1.3	.6							4.3	10.0
NNW		1.9	2.6	1.9								6.5	9.1
VARBL													
CALA												19.4	
	12.3	25.2	21.9	18.1	3.2							100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

07  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	3.2	1.9	3.2								9.7	8.1
NNE		.6	.6	3.9	3.2							8.4	14.9
NE	.6		5.8	1.9								8.4	10.1
ENE	.6	2.6	1.3									4.5	6.0
E		1.3	1.3									2.6	6.3
ESE	1.3		.6									1.9	4.3
SE		.6										.6	5.0
SSE	.6		.6	.6								1.9	7.7
S	3.2	.6	4.5	.6								9.0	6.6
SSW	1.3	2.6	1.9									5.8	5.4
SW	.6	1.9	1.3									3.9	5.5
WSW		6.5	1.3		.6							7.7	5.5
W	.6	1.3	1.3	.6								4.5	8.9
WNW			1.9									1.9	8.3
NW	.6	2.6	.6	1.3	.6							5.8	8.7
NNW	.6	2.6	1.3	2.6	.6							7.7	9.6
VARB													
CALM												15.5	
	11.6	26.5	26.5	14.8	5.2							100.0	6.9

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

007  
MONTH

ALL WEATHER

CLASS

10  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	3.9	6.5	5.2	.6							17.4	8.9
NNE		1.3	4.5	3.9	.6							10.3	11.1
NE		1.3	2.6	1.3								5.2	9.1
ENE		1.3	1.9	1.3								4.5	8.3
E	.6	.6	3.9	.6								5.8	7.4
ESE		2.6										2.6	5.0
SE	.6	.6		.6								1.9	6.3
SSE		.6	.6									1.3	6.5
S		1.3	2.6	.6								4.5	8.6
SSW		.6	3.2	.6								4.5	9.0
SW		2.6	3.9	1.9								8.4	8.8
WSW		1.3	3.2	.6								5.2	8.4
W	.6	2.6	2.6	1.9		.6						8.4	8.7
WNW		1.9		.6								2.6	7.3
NW		1.3	.6	2.6	.6							5.2	11.1
NNW	1.3	1.9	2.6	2.6								8.4	8.6
VARBL													
CALM												3.9	
	4.5	25.8	38.7	24.5	1.9	.6						100.0	8.5

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.2	5.2	1.3	5.2	1.3							16.1	8.6
NNE	1.3	1.9	6.5	2.6	1.3							13.5	9.0
NE	.6	1.3	3.2	1.3								6.5	8.9
ENE	1.3	.6	3.9	.6								6.5	7.0
E		3.9	1.3									5.2	5.9
ESE			.6									.6	10.0
SE			2.6									2.6	8.8
SSE			.6									.6	8.0
S		.6	1.9	.6								3.2	8.8
SSW			5.8	.6								6.5	8.9
SW		.6	2.6	3.9	.6							7.7	11.0
WSW	.6	2.6	1.9	.6								5.8	7.1
W		3.2	3.9	2.6								9.7	9.0
WNW			1.3	1.3								2.6	11.5
NW		1.3	3.2	.6								5.2	8.9
NNW	1.3	1.9	1.9	1.9	.6							7.7	8.8
VARB												.0	
CALM													
	8.4	23.2	42.6	21.9	3.9							100.0	8.7

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	3.2	1.9	3.9	.6							11.6	9.0
NNE	1.3	3.9	2.6	2.6	.6							11.0	8.2
NE	1.3	3.2	4.5	1.9								11.0	7.6
ENE	1.9	2.6	2.6	.6								7.7	5.9
E	1.9	5.2	3.2	.6								11.0	5.8
ESE	.6	.6	.6	.6								2.6	6.3
SE		.6	.6		.6							1.9	9.7
SSE				.6								.6	13.0
S	.6	3.2	2.6									6.5	6.5
SSW		1.3	2.6	1.3								5.2	9.0
SW	1.3		3.2	1.9								6.5	8.7
WSW		1.9	.6	1.9		.6						5.2	10.6
W		1.9	2.6	1.9								6.5	8.6
WNW	.6		2.6	1.9								5.2	9.8
NW			1.9	1.3								3.2	9.8
NNW		.6	1.9	1.3								3.9	10.2
VARBL													
CALM												.6	
	11.6	28.4	34.2	22.6	1.9	.6						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

19  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.6	3.2	1.9	1.9							7.7	12.2
NNE	.6	.6	3.2	2.6	.6							7.7	10.0
NE	.6	1.3	1.9	1.9								5.8	8.7
ENE	1.3	1.9	.6	.6								4.5	5.3
E	3.9	1.9	1.3									7.1	4.4
ESE	1.3	1.3		.6								3.2	5.6
SE	5.2	1.9										7.1	3.2
SSE	1.9	3.2	.6	.6								6.5	5.5
S	2.6	3.9	1.3									7.7	4.2
SSW	1.9	.6	3.9	.6								7.1	6.6
SW	.6	.6	2.6									3.9	7.2
WSW	.6	1.9	.6									3.2	5.2
W		.6	.6		.6							1.9	10.7
WNW	.6		.6	1.3		.6						3.2	12.0
NW			2.6	.6								3.2	10.2
NNW		1.3	4.5	.6	.6							7.1	9.0
VARBL													
CALM												12.9	
	21.3	21.9	27.7	11.6	3.9	.6						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

OCT

MONTH

ALL WEATHER

CLASS

22

HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.9	.6	3.2	1.3	.6						7.7	12.9
NNE	1.3	.6	1.3	3.2								6.5	10.0
NE	.6	1.3	3.2	1.9								7.1	8.7
ENE	1.9	1.9	.6									4.5	5.0
E	1.9	2.6	1.3									5.8	5.1
ESE	.6											.6	3.0
SE	1.3	1.3	.6									3.2	5.0
SSE	5.2	.6	.6	.6								7.1	4.3
S	3.9	2.6	3.2	.6								10.3	5.4
SSW		2.6	1.9	2.6								7.1	8.5
SW	.6	2.6	1.9									5.2	6.3
WSW		.6	.6	1.3								2.6	10.3
W													
WNW	.6	.6	3.2	1.3								5.8	8.4
NW	.6	1.3	1.9	1.3								5.2	8.5
NNW		.6	1.9	2.6								5.2	10.6
VARBL													
CALM												16.1	
	18.7	21.3	23.2	18.7	1.3	.6						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS

135



# SURFACE WINDS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

ALL  
MOUSE (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.7	2.4	3.8	1.0	.1						11.1	9.8
NNE	.7	1.3	2.7	3.1	1.0	.1						9.0	10.8
NE	.6	1.3	3.3	1.8	.2							7.4	9.0
ENE	1.1	1.7	1.7	.4								4.9	6.1
E	1.0	2.3	1.7	.2								5.2	5.9
ESE	.5	.9	.3	.2								1.9	5.4
SE	1.0	.7	.6	.1	.1							2.5	5.3
SSE	1.9	1.0	.6	.3								3.7	4.9
S	1.8	1.9	2.7	.4	.1							6.9	6.3
SSW	.6	1.6	2.7	1.0								6.1	7.4
SW	.6	1.7	2.4	1.1	.1							6.0	7.8
WSW	.5	2.6	1.3	.8		.1						5.2	7.1
W	.2	1.3	1.6	1.2	.2	.1						4.9	8.7
WNW	.3	.6	1.6	.8		.1						3.4	8.8
NW	.2	1.0	1.7	1.4	.2							4.5	9.7
NNW	.5	1.6	2.4	1.9	.2							6.6	9.1
VARBL													
CALM												10.6	
	12.9	24.5	30.0	18.4	3.1	.4						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

1240

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			4.7	2.0								6.7	10.5
NNE		.7	.7	1.3		.7						3.3	12.8
NE		2.0	.7	.7								3.3	7.4
ENE	.7	1.3		2.0								4.0	8.3
E		.7	.7									1.3	6.0
ESE													
SE													
SSE	2.0	.7										2.7	2.5
S	2.7	6.7	3.3	1.3								14.0	6.0
SSW	.7	5.3	2.7	2.0								10.7	6.8
SW	2.0	4.7	5.3	.7								12.7	6.3
WSW	1.3	1.3	1.3	1.3								5.3	6.9
W	.7	2.7	1.3	2.0		.7						7.3	9.7
WNW			2.7	2.0								4.7	11.1
NW		.7	3.3	1.3								5.3	8.9
NNW		1.3	4.7	.7	.7							7.3	9.3
VARB													
CALM												11.3	
	10.0	28.0	31.3	17.3	.7	1.3						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

NOV

MONTH

ALL WEATHER

CLASS

04

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	3.3	2.7	2.7		.7						10.0	9.7
NNE	.7	.7	1.3	2.7								5.3	9.4
NE		2.0	2.0	2.0								6.0	8.6
ENE		1.3	2.0	.7								4.0	7.7
E		.7										.7	4.0
ESE		.7										.7	4.0
SE		1.3										1.3	5.0
SSE		2.0										2.0	4.7
S	.7	2.0	4.0									6.7	7.1
SSW	.7	4.7	4.7	.7								10.7	6.4
SW		6.0	2.7	.7								9.3	6.2
WSW	2.0	2.0	2.7	2.0								8.7	7.3
W	.7		3.3	3.3								7.3	9.6
WNW				.7	.7							1.3	14.3
NW	.7	1.3	2.7	.7								5.3	7.5
NNW		1.3	2.7	4.0								8.0	10.1
VARBL													
CALM												12.7	
	6.0	29.3	30.7	20.0	.7	.7						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

150



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

07  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.3	3.3	5.3								10.7	10.3
NNE		1.3	1.3	2.0		.7						5.3	11.0
NE	1.3	.7	3.3	.7								6.0	6.8
ENE	.7	.7	1.3									2.7	6.0
E		1.3	.7									2.0	5.3
ESE	.7											.7	2.0
SE	1.3	.7										2.0	3.7
SSE	1.3	1.3	.7	.7								4.0	5.7
S	2.7	1.3	3.3									7.3	5.7
SSW	1.3	1.3	4.7	.7								8.0	7.5
SW	1.3	3.3	3.3	.7								8.0	5.8
WSW	2.0	2.0	3.3	.7								8.0	6.6
W	.7	2.0	4.7	.7	.7							8.7	8.6
WNW	.7		1.3	2.0								4.0	9.7
NW			2.7	2.7								5.3	10.4
NNW	.7	.7	2.0	2.0								5.3	9.4
VARBL													
CALM												12.0	
	15.3	18.0	36.0	17.3	.7	.7						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

NOV

MONTH

ALL WEATHER

CLASS

10

HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.7	9.3	2.0	.7							15.3	8.7
NNE			2.0	2.0								4.0	11.0
NE		3.3	2.7	2.0								8.0	8.5
ENE	.7	1.3	2.0									4.0	6.5
E		1.3	.7									2.0	6.0
ESE			.7									.7	8.0
SE		1.3	1.3									2.7	7.5
SSE			1.3									1.3	10.0
S		2.0	1.3	1.3								4.7	8.9
SSW		1.3	5.3	2.7								9.3	9.1
SW	1.3	4.0	1.3	2.0	.7							9.3	7.9
WSW	.7	3.3	6.7	1.3								12.0	7.5
W	1.3	.7	2.7	4.0	.7							9.3	10.6
WNW		1.3	.7	.7								2.7	8.0
NW		.7	.7	3.3	.7							5.3	11.5
NNW			2.0	1.3	.7							4.0	11.2
VARBL													
CALM												5.3	
	4.7	23.3	40.7	22.7	3.3							100.0	8.4

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		4.0	3.3	2.0								9.3	8.2
NNE	2.0	4.0	4.0	1.3								11.3	6.7
NE		2.0	2.7	1.3								6.0	8.9
ENE		2.0	1.3	1.3								4.7	8.6
E	.7	.7	1.3									2.7	5.8
ESE													
SE													
SSE			1.3									1.3	9.0
S		.7	2.0	3.3								6.0	10.2
SSW		4.7	3.3	3.3		.7						12.0	8.9
SW	.7	.7	3.3	1.3								6.0	8.4
WSW	.7	2.0	2.0	2.0	.7							7.3	9.7
W		2.7	6.7	3.3	1.3							14.0	9.8
WNW			2.7	3.3	.7							6.7	12.4
NW		.7	.7	2.0								3.3	10.0
NNW	.7	1.3	2.0	3.3								7.3	9.0
VARBL													
CALA												2.0	
	4.7	25.3	36.7	28.0	2.7	.7						100.0	8.8

TOTAL NUMBER OF OBSERVATIONS

150



# SURFACE WINDS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7	2.0	2.7								6.0	9.3
NNE	1.3	2.0	2.0	.7	.7							6.7	7.5
NE		5.3		.7								6.0	5.8
ENE	4.7	4.0	3.3									12.0	5.2
E	2.7	4.7	1.3									8.7	4.6
ESE		.7										.7	4.0
SE			.7									.7	8.0
SSE				.7								.7	12.0
S		2.0	2.0	1.3								5.3	9.0
SSW		3.3	4.7	2.7								10.7	8.5
SW		4.0	2.7	2.7								9.3	8.6
WSW		2.7	1.3	1.3								5.3	8.4
W	.7	2.0	3.3	2.7	.7							9.3	9.1
WNW	.7	2.0	2.0	2.0								6.7	8.5
NW		.7	2.0	2.0								4.7	10.3
NNW	.7	2.7		2.0								5.3	7.3
VARBL													
CALM												2.0	
	11.3	36.7	27.3	21.3	1.3							100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

19  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.3	2.7	1.3	.7							6.0	9.9
NNE			2.0			.7						2.7	14.0
NE		.7		1.3								2.0	9.7
ENE		2.0	2.0									4.0	7.2
E	1.3	2.0										3.3	3.8
ESE	1.3											1.3	2.0
SE	2.7	.7										3.3	3.4
SSE	2.7	4.0	2.7									9.3	5.1
S	2.7	4.0	6.0	.7								13.3	6.5
SSW	2.0		4.0									6.0	7.2
SW	2.0	3.3	2.0	.7	.7							8.7	6.8
WSW	2.0		.7		.7							3.3	7.0
W	.7	.7	2.0	1.3	.7							5.3	10.3
WNW		.7	1.3	.7								2.7	8.3
NW	.7	.7	.7	3.3								5.3	10.0
NNW		2.0	3.3	2.0								7.3	8.7
VARBL													
CALM												16.0	
	18.0	22.0	29.3	11.3	2.7	.7						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

22  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.7	4.0	2.7								8.7	8.3
NNE		.7		.7		.7						2.0	14.7
NE		.7										.7	4.0
ENE		1.3	3.3	.7								5.3	8.5
E	.7		1.3									2.0	6.0
ESE			.7									.7	7.0
SE	.7	2.0										2.7	4.0
SSE	2.0	4.0	2.7	.7								9.3	5.8
S	4.0	2.0	4.0	.7								10.7	5.9
SSW	1.3	6.0	6.0	1.3								14.7	7.1
SW	1.3	.7	2.0	.7								4.7	6.7
WSW	2.0		1.3									3.3	4.6
W	.7	2.0	1.3	3.3	.7							8.0	9.6
WNW		.7		2.0								2.7	11.8
NW			2.0	2.0	.7							4.7	11.9
NNW		.7	3.3	2.0	.7							6.7	9.4
VARBL													
CALM												13.3	
	14.0	21.3	32.0	16.7	2.0	.7						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

ALL  
MOUSE (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.7	4.0	2.6	.2	.1						9.1	9.3
NNE	.5	1.2	1.7	1.3	.1	.3						5.1	9.5
NE	.2	2.1	1.4	1.1								4.7	7.8
ENE	.8	1.7	1.9	.6								5.1	6.9
E	.7	1.4	.7									2.8	5.0
ESE	.2	.2	.2									.6	4.1
SE	.6	.7	.2									1.6	4.8
SSE	1.0	1.5	1.1	.2								3.8	5.7
S	1.6	2.6	3.2	1.1								8.5	7.0
SSW	.7	3.3	4.4	1.7		.1						10.2	7.7
SW	1.1	3.3	2.8	1.1	.2							8.5	7.1
WSW	1.3	1.7	2.4	1.1	.2							6.7	7.5
W	.7	1.6	3.2	2.6	.6	.1						8.7	9.7
WNW	.2	.6	1.3	1.7	.2							3.9	10.3
NW	.2	.6	1.8	2.2	.2							4.9	10.0
NNW	.2	1.2	2.5	2.2	.2							6.4	9.2
VARBL													
CALM												9.3	
	10.5	25.5	33.0	19.3	1.7	.6						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

1200

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.3	1.3	1.9	.6							5.8	9.9
NNE		1.3		1.3	1.3							3.9	12.0
NE	1.3	1.3	1.3	1.3								5.2	6.8
ENE		2.6	.6	1.3	.6							5.2	9.1
E		1.3	.6									1.9	5.7
ESE	1.3											1.3	2.5
SE	1.3		1.3	.6								3.2	7.0
SSE	1.3	.6	.6									2.6	4.8
S	1.9	1.9	3.9	.6								8.4	6.6
SSW	.6	5.2	4.5	3.2								13.5	7.9
SW	.6	3.2	1.3	.6								5.8	6.6
WSW		1.3	.6	1.3								3.2	8.2
W		1.3	4.5	1.3	.6							7.7	9.6
WNW			2.6	2.6	.6							5.8	11.0
NW		.6	1.3	1.9								3.9	9.3
NNW	.6	.6	1.9	3.9	1.9							9.0	12.1
VARBL													
CALM												13.5	
	9.7	22.6	26.5	21.9	5.8							100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

04  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3		1.3	3.2	1.9							7.7	11.9
NNE	.6	1.3	.6	1.9	.6	.6						5.8	11.6
NE	.6	4.5	1.3	1.3								7.7	7.2
ENE		.6		1.3								1.9	10.0
E	.6	.6										1.3	3.5
ESE			1.3	.6								1.9	9.0
SE	1.3	.6	.6									2.6	4.0
SSE	.6	1.9	.6	1.9								5.2	7.4
S	.6	2.6	1.3	.6								5.2	7.3
SSW	.6	3.2	3.2	2.6								9.7	8.2
SW	1.3	3.2	1.9									6.5	5.1
WSW	1.3	2.6	.6	.6								5.2	5.8
W		3.9	2.6	1.9	.6							9.0	8.6
WNW		.6	3.9	3.2								7.7	9.8
NW			1.9	.6								2.6	10.0
NNW	.6		2.6	2.6								5.8	10.0
VARBL													
CALM												14.2	
	9.7	25.8	23.9	22.6	3.2	.6						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

2

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

DEC  
MONTH

07  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.6	2.6	1.3	1.3								5.8	6.7
NNE	.6	3.2	.6	1.3	1.3							7.1	9.1
NE	1.3	2.6	2.6	1.3	.6							8.4	7.8
ENE		1.3	1.3									2.6	7.0
E	.6	.6	.6	.6								2.6	7.3
ESE													
SE	1.3		1.3	.6								3.2	6.4
SSE	1.3		1.3									2.6	5.0
S	.6	1.9	2.6	1.3								6.5	7.9
SSW	1.3	4.5	5.2	1.9								11.6	8.4
SW	1.3	1.3	1.3	1.3								5.2	6.9
WSW		1.3	1.9	.6								3.9	8.7
W	.6	1.3	3.2	.6	.6							6.5	9.1
WNW		2.6	1.9	2.6								7.1	8.3
NW	.6	.6	3.2	1.9								6.5	9.1
NNW		1.3	3.9	5.2								10.3	10.8
VARBL													
CALM												10.3	
	9.0	25.2	32.3	20.6	2.6							100.0	7.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

10  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.9	.6	1.3								5.2	7.1
NNE	.6	.6	4.5	3.2	1.0							11.0	11.0
NE		1.3	3.2	1.9								6.5	9.7
ENE	.6	1.3	1.3									3.2	5.8
E	1.3	.6										1.9	3.3
ESE			.6	.6	.6							1.9	13.0
SE	.6		.6									1.3	6.0
SSE	.6	.6	.6	.6								2.6	7.0
S		2.6	1.9	1.3								5.8	8.2
SSW	.6	2.6	6.5	1.3		.6						11.6	8.9
SW		1.3	2.6	5.2								9.0	10.6
WSW	.6	2.6	1.3	.6	.6							5.8	8.0
W	1.3	1.9	3.9	1.9								9.0	8.1
WNW	.6		.6	2.6								3.9	10.8
NW	.6	1.9	1.9	3.2								7.7	9.0
NNW	.6	1.3	2.6	3.9								8.4	10.0
VARBL													
CALA												5.2	
	9.7	20.6	32.9	27.7	3.2	.6						100.0	8.6

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.2	1.9	3.2	3.2	.6							12.3	8.4
NNE	1.3	2.6	3.2	3.9								11.0	8.6
NE	.6	1.9	2.6	1.3								6.5	7.7
ENE	.6	.6		.6								1.9	6.0
E	.6	2.6	.6									3.9	4.7
ESE	.6				.6							1.3	10.0
SE				.6								.6	12.0
SSE	.6	1.3	.6	.6								3.2	6.2
S	.6		1.3									1.9	6.3
SSW	.6	2.6	3.9	4.5								11.6	9.2
SW		1.3	2.6	1.3								5.2	8.3
WSW	1.3	1.3	2.6	3.9								9.0	9.4
W	1.3	3.2	5.8	2.6								12.9	7.9
WNW	.6	.6	1.9	3.9								7.1	9.6
NW		1.3	1.3	1.9								4.5	9.3
NNW	.6	1.3	1.3	1.9								5.2	9.0
VARBL													
CALM												1.9	
	12.9	22.6	31.0	30.3	1.3							100.0	8.2

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEAR

DEC  
MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.0	1.9	.6	.6							5.8	8.3
NNE	.6	1.9	4.0	3.2	.6							9.0	9.6
NE	.6	5.2	1.3	.6	.6							8.4	7.2
ENE	.6	5.8										6.5	4.9
E	1.9	1.9	.6									4.5	3.7
ESE		.6	1.3									1.9	7.0
SE													
SSE		.6		.6								1.3	10.5
S		1.3	1.3	.6	.6							3.9	9.8
SSW		3.9	4.3	2.6								11.0	8.4
SW	1.9	1.3	4.3	.6								8.4	7.0
WSW		1.3	1.9	2.6								5.8	10.7
W	.6	2.6	5.8	1.3								10.3	7.7
WNW	.6	1.9	1.9	3.2	.6							8.4	9.7
NW			2.6	1.3								3.9	9.3
NNW	.6	.6	1.9	1.3								4.5	9.7
VARB													
CALM												6.5	
	7.7	31.6	32.3	18.7	3.2							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

19  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0000

0000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.3	3.9	1.3	.6							7.1	10.0
NNE	.6	3.2	1.3	3.2	.6							9.0	9.1
NE	.6	.6	1.9	1.3	.6							5.2	9.8
ENE	1.9	1.3	1.3									4.5	5.0
E	.6			.6								1.3	8.5
ESE	.6	.6										1.3	3.5
SE		2.6	.6	.6								3.9	7.0
SSE	1.3		.6									1.9	4.0
S	1.9	3.2	2.6	1.3	.6							9.7	7.2
SSW	2.6	1.9	3.9	3.2								11.6	7.5
SW	1.9	4.5										6.5	4.1
WSW	1.9	1.3	1.9									5.2	5.6
W	.6	.6	1.9	.6	.6							4.5	9.4
WNW	.6		3.2	.6	.6							5.2	9.9
NW	1.3		1.3	3.2	.6							6.5	10.6
NNW	.6	.6	1.3									2.6	5.8
VARBL													
CALM												14.2	
	17.4	21.9	25.6	16.1	4.5							100.0	6.7

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

22  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.9	1.9	3.2								7.1	9.8
NNE		.6	2.6	1.3	.6							5.2	9.9
NE	.6		4.5	.6	.6							6.5	9.0
ENE	1.3	1.3										2.6	3.3
E	1.3	1.3	1.3									3.9	5.2
ESE	.6											.6	3.0
SE		1.3										1.3	6.0
SSE	1.3	1.9	.6									3.9	4.7
S	1.9	.6	1.9	3.2								7.7	8.6
SSW	2.6	2.6	5.8	3.2								14.2	7.6
SW	1.3	2.6	.6	1.3								5.8	7.0
WSW		.6	3.9	.6								5.2	8.9
W	.6		1.9	1.3	.6							4.5	10.0
WNW		.6	1.3	2.6	.6							5.2	11.4
NW	.6		1.9	2.6								5.2	10.1
NNW		1.3	1.9	1.9								5.2	10.0
VARBL													
CALM												16.1	
	12.3	16.8	30.3	21.9	2.6							100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

73-77

DEC  
MONTH

STATION NAME

YEARS

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.7	1.9	2.0	.6							7.1	9.1
NNE	.6	1.9	1.9	2.4	.9	.1						7.7	9.9
NE	.7	2.2	2.3	1.2	.3							6.8	8.1
ENE	.6	1.9	.6	.4	.1							3.5	6.3
E	.9	1.1	.5	.2								2.7	5.0
ESE	.4	.2	.4	.2	.2							1.3	7.6
SE	.6	.6	.6	.3								2.0	6.4
SSE	.9	.9	.6	.5								2.9	6.1
S	1.0	1.8	2.1	1.1	.2							6.1	7.7
SSW	1.0	3.3	4.7	2.8		.1						11.9	8.2
SW	1.0	2.3	1.9	1.3								6.5	7.1
WSW	.6	1.5	1.9	1.3	.1							5.4	8.3
W	.6	1.9	3.7	1.5	.4							8.1	8.6
WNW	.3	.6	2.2	2.7	.3							6.3	9.9
NW	.4	.6	1.9	2.1	.1							5.1	9.6
NNW	.5	.9	2.2	2.6	.2							6.4	10.2
VARBL													
CALM												10.2	
	11.0	23.4	29.4	22.5	3.3	.2						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

1240

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

ALL  
MONTH

ALL WEATHER  
CLASS

ALL  
MOUSE (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.6	2.4	2.3	.4	.1	.0	.0				7.9	9.2
NNE	.5	1.7	2.2	1.4	.3	.1	.0	.0				6.2	9.0
NE	.5	1.9	2.0	.7	.1							5.2	7.5
ENE	1.0	2.1	1.9	.5	.0							5.4	6.4
E	1.3	2.3	1.3	.2	.0							5.1	5.4
ESE	.7	.6	.4	.1	.0							2.0	5.0
SE	1.1	1.1	.8	.2	.0							3.2	5.3
SSE	1.2	1.6	1.1	.3	.0							4.4	5.6
S	1.3	2.9	3.7	1.4	.1	.0						9.4	7.4
SSW	.6	3.0	5.0	2.1	.1	.0						11.0	8.1
SW	.7	2.3	2.6	1.3	.1	.0						7.1	7.9
WSW	.7	1.9	2.0	1.1	.1	.0	.0					5.8	7.7
W	.5	1.6	2.3	1.6	.3	.1						6.6	8.8
WNW	.2	.7	1.3	1.1	.2	.0						3.5	9.5
NW	.2	.7	1.4	1.2	.1	.0	.0					3.6	9.6
NNW	.3	1.0	1.5	1.5	.2	.0						4.7	9.4
VARBL													
CALM												9.1	
	12.0	27.6	31.8	17.1	2.0	.3	.1	.0				100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

14608

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13750  
STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

ALL  
MONTH

INSTRUMENT

ALL

HOURS (L.S.T.)

CIG 200 TO 1400 FT W/VSBY 1/2 MI OR MORE,

CLASS

CONDITION

AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.2	2.4	4.7	4.7	1.4	.5						14.9	10.5
NNE	.3	2.1	3.7	2.7	1.6	.2	.1					10.7	10.9
NE	.5	1.6	2.7	2.2	.3							7.3	9.1
ENE	1.3	1.4	2.7	1.5	.1							7.0	7.8
E	.7	2.4	1.5	.3	.1							5.1	6.3
ESE	.6	.9	.4	.3	.1							2.3	6.4
SE	.7	.7	1.4	.2	.1							3.1	6.5
SSE	.4	.7	.9	.7								2.7	8.2
S	.6	2.8	2.8	1.4	.2	.1						7.8	7.9
SSW	.5	2.2	2.2	.7								5.7	7.1
SW	.5	1.8	1.6	.7	.1	.1						4.7	7.3
WSW	.8	1.1	1.2	.7	.2							4.1	7.8
W	.6	1.8	1.6	.6								4.7	7.0
WNW	.3	1.0	.9	.8								3.0	8.0
NW	.1	.4	1.1	.7	.1							2.4	9.6
NNW	.5	1.1	2.0	2.8	.4	.2						6.9	10.5
VARBL													
CALM												7.8	
	9.7	24.4	31.4	20.9	4.7	1.0	.1					100.0	8.0

TOTAL NUMBER OF OBSERVATIONS

1481

DIRNAVOCEANMET SMOS



NWSD, Federal Building  
Asheville, N. C.

## PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

# EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

VISIBILITY (STATUTE MILES)															
CEILING (FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING															
≥ 1800															
≥ 1500					91.0										92.6
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500										97.4					98.1
≥ 400															
≥ 300															
≥ 200															
≥ 100															
0					95.4		96.9			98.3					100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.

Ceiling  $\geq 500$  feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:

Visibility  $\geq 3$  miles = 95.4%.

Visibility  $\geq 2$  miles = 96.9%.

Visibility  $\geq 1$  mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

## PART D

### ADDITIONAL EXAMPLES

#### EXAMPLE # 4

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.

Thus, to obtain the percentage of observations with ceiling  $< 1500$  feet and/or visibility  $< 3$  miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling  $< 1500$  feet and/or visibility  $< 3$  miles.

Likewise, the percentage of observations with ceiling  $< 500$  feet and/or visibility  $< 1$  mile is 2.6, obtained by subtracting 97.4 from 100.0.

#### EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $> 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $> 500$  feet with visibility  $> 1$  mile, but  $< 3$  miles; or ceiling  $\geq 500$  feet, but  $< 1500$  feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.



## PART D

## SKY COVER

This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover by tenths, plus mean sky cover, and total number of observations. It is presented in two tables as follows:

1. By month and annual - all hours and all years combined.
2. By month - by standard 3-hour groups.

NOTE: # 1: Sky cover (total cloud amount) was not reported by U. S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

NOTE: # 2: Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

### OKTAS

0  
1  
2  
3  
4  
5  
6  
7  
8

### TENTHS

0  
1  
3  
4  
5  
6  
8  
9  
10

8 (or obscured)

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

JAN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING		50.3	51.6	52.9	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 20000		56.1	57.4	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
18000		56.1	57.4	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
16000		56.1	57.4	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
14000		56.1	57.4	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
12000		56.1	57.4	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
10000		58.7	60.0	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
9000		58.7	60.0	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
8000		63.2	64.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
7000		63.9	65.2	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
6000		64.5	65.8	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
5000		66.5	67.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
4500		67.7	69.0	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
4000		69.7	71.0	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
3500		71.0	72.3	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
3000		74.2	75.5	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
2500		75.5	76.8	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
2000		76.8	78.1	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
1800		76.8	78.1	81.3	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
1500		78.1	79.4	82.6	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
1200		79.4	81.9	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
1000		79.4	81.9	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
900		80.7	84.5	87.7	88.4	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0
800		81.3	85.8	89.7	90.3	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0
700		82.6	87.1	91.0	91.6	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3
600		82.6	87.1	91.6	92.3	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9
500		82.6	87.1	91.6	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6
400		82.6	87.1	92.9	94.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8
300		82.6	87.1	93.6	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5
200		82.6	87.1	93.6	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5
100		82.6	87.1	93.6	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5
0		82.6	87.1	93.6	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5

TOTAL NUMBER OF OBSERVATIONS

155



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13750

NORFOLK, VIRGINIA

73-77

JAN

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

04

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16	≥ ¼
NO CEILING													
≥ 20000	49.0	49.7	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 18000	51.6	52.3	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 16000	51.6	52.3	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 14000	51.6	52.3	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 12000	52.3	52.9	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 10000	55.5	56.8	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 9000	55.5	56.8	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 8000	58.7	60.0	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 7000	60.7	61.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 6000	60.7	61.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 5000	62.6	63.9	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 4500	63.9	65.2	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 4000	65.8	67.1	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 3500	65.8	67.1	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 3000	66.5	67.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 2500	68.4	70.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 2000	71.0	72.9	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 1800	71.0	72.9	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 1500	72.9	74.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 1200	76.1	78.1	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 1000	78.7	80.7	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 900	79.4	81.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 800	80.0	81.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 700	80.0	81.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 600	80.0	81.9	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 500	80.0	82.6	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 400	80.0	83.2	87.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 300	80.0	83.2	87.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 200	80.0	83.2	87.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 100	80.0	83.2	87.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
0	80.0	83.2	87.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0

TOTAL NUMBER OF OBSERVATIONS

155

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# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

JAN  
MONTH  
07  
HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING												
≥ 20000	45.2	46.5	48.4	49.7	50.3	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 18000	49.7	51.0	52.9	54.2	54.8	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 16000	49.7	51.0	52.9	54.2	54.8	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 14000	49.7	51.0	52.9	54.2	54.8	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 12000	49.7	51.0	52.9	54.2	54.8	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 10000	50.3	51.6	53.6	54.8	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 9000	55.5	56.8	58.7	60.0	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 8000	55.5	56.8	58.7	60.0	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 7000	57.4	59.4	61.3	62.6	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 6000	58.7	60.7	62.6	63.9	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 5000	58.7	60.7	62.6	63.9	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 4500	60.7	62.6	64.5	65.8	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 4000	60.7	62.6	64.5	65.8	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 3500	61.9	63.9	65.8	67.1	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 3000	64.5	66.5	68.4	69.7	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 2500	66.5	68.4	70.3	71.6	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 2000	67.7	69.7	71.6	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 1800	69.0	71.0	72.9	74.2	74.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 1500	69.0	71.0	72.9	74.2	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 1200	72.3	74.8	76.8	78.1	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 1000	73.6	77.4	79.4	80.7	81.3	83.2	83.2	83.2	83.2	83.2	83.2	83.2
900	73.6	77.4	79.4	80.7	81.3	83.2	83.2	83.2	83.2	83.2	83.2	83.2
800	73.6	77.4	79.4	80.7	81.3	83.2	83.2	83.2	83.2	83.2	83.2	83.2
700	74.8	78.7	81.3	82.6	83.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
600	74.8	78.7	81.3	82.6	83.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
500	74.8	78.7	81.3	82.6	83.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
400	74.8	78.7	81.3	82.6	83.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
300	74.8	78.7	81.3	82.6	83.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
200	74.8	78.7	81.3	82.6	83.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
100	74.8	78.7	81.3	82.6	83.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
0	74.8	78.7	81.3	82.6	83.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2

TOTAL NUMBER OF OBSERVATIONS

155

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

JAN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING		44.5	46.5	47.1	47.7	47.7	48.4	49.0	49.0	49.0	49.0	49.0
≥ 20000		51.6	53.6	54.8	55.5	55.5	56.1	56.8	56.8	56.8	56.8	56.8
≥ 18000		52.3	54.2	55.5	56.1	56.1	56.8	57.4	57.4	57.4	57.4	57.4
≥ 16000		52.3	54.2	55.5	56.1	56.1	56.8	57.4	57.4	57.4	57.4	57.4
≥ 14000		52.9	54.8	56.1	56.8	56.8	57.4	58.1	58.1	58.1	58.1	58.1
≥ 12000		52.9	54.8	56.1	56.8	56.8	57.4	58.1	58.1	58.1	58.1	58.1
≥ 10000		54.8	58.7	60.0	60.7	60.7	61.3	61.9	61.9	61.9	61.9	61.9
≥ 9000		55.5	59.4	60.7	61.3	61.3	61.9	62.6	62.6	62.6	62.6	62.6
≥ 8000		59.4	63.2	65.2	66.5	67.1	67.7	68.4	68.4	68.4	68.4	68.4
≥ 7000		59.4	63.2	65.2	66.5	67.1	67.7	68.4	68.4	68.4	68.4	68.4
≥ 6000		59.4	63.2	65.2	66.5	67.1	67.7	68.4	68.4	68.4	68.4	68.4
≥ 5000		60.0	63.9	65.8	67.1	67.7	68.4	69.0	69.0	69.0	69.0	69.0
≥ 4500		61.3	65.8	67.7	69.0	69.7	70.3	71.0	71.0	71.0	71.0	71.0
≥ 4000		62.6	67.1	69.0	70.3	71.0	71.6	72.3	72.3	72.3	72.3	72.3
≥ 3500		63.2	67.7	69.7	71.0	71.6	72.3	72.9	72.9	72.9	72.9	72.9
≥ 3000		65.8	70.3	72.3	74.2	74.8	75.5	76.8	76.8	76.8	76.8	76.8
≥ 2500		66.5	71.0	72.9	75.5	77.4	78.1	79.4	79.4	79.4	79.4	79.4
≥ 2000		68.4	72.9	74.8	77.4	79.4	80.0	81.3	81.3	81.3	81.3	81.3
≥ 1800		68.4	72.9	74.8	77.4	79.4	80.0	81.3	81.3	81.3	81.3	81.3
≥ 1500		69.0	74.8	76.8	79.4	81.3	81.9	83.2	83.2	83.2	83.2	83.2
≥ 1200		71.0	76.8	78.7	81.3	83.2	83.9	85.2	85.2	85.2	85.2	85.2
≥ 1000		71.6	77.4	79.4	83.9	85.8	86.5	87.7	88.4	88.4	88.4	88.4
≥ 900		71.6	77.4	79.4	83.9	85.8	86.5	87.7	88.4	88.4	88.4	88.4
≥ 800		71.6	77.4	79.4	84.5	86.5	87.1	89.0	89.7	89.7	89.7	89.7
≥ 700		72.3	78.7	80.7	86.5	88.4	89.0	91.0	91.6	91.6	91.6	91.6
≥ 600		72.9	79.4	81.9	87.7	90.3	91.0	92.9	93.6	93.6	93.6	93.6
≥ 500		72.9	79.4	82.5	89.7	92.3	92.9	94.8	95.5	95.5	95.5	95.5
≥ 400		72.9	79.4	83.2	91.0	93.6	94.8	97.4	98.7	98.7	98.7	98.7
≥ 300		72.9	79.4	83.2	91.0	93.6	94.8	97.4	98.7	98.7	98.7	98.7
≥ 200		72.9	79.4	83.2	91.0	93.6	94.8	97.4	98.7	98.7	98.7	98.7
≥ 100		72.9	79.4	83.2	91.0	93.6	94.8	97.4	98.7	98.7	98.7	98.7
0		72.9	79.4	83.2	91.0	93.6	94.8	97.4	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

JAN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16	≥ ¼
NO CEILING													≥ 0
≥ 20000		47.7	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 18000		56.8	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 16000		56.8	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 14000		57.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 12000		58.1	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 10000		58.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 9000		62.6	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 8000		62.6	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 7000		68.4	71.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 6000		68.4	71.0	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 5000		68.4	71.0	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 4500		69.0	71.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 4000		69.7	72.3	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 3500		71.0	74.2	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 3000		71.6	74.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 2500		75.5	80.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 2000		75.5	80.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 1800		77.4	82.6	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1500		77.4	82.6	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1200		78.7	83.9	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1000		80.0	85.2	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 900		81.3	86.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 800		81.3	86.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 700		81.3	86.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 600		81.3	86.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 500		81.3	86.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 400		81.3	86.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 300		81.3	86.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 200		81.3	86.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 100		81.3	86.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
0		81.3	86.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0

TOTAL NUMBER OF OBSERVATIONS

155



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750	STATION
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**NORFOLK, VIRGINIA**

73-77

STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE
STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE

YEARS	NUMBER OF PERSONS
1960-1969	1,000
1970-1979	1,000
1980-1989	1,000
1990-1999	1,000
2000-2009	1,000
2010-2019	1,000
2020-2029	1,000
2030-2039	1,000
2040-2049	1,000
2050-2059	1,000
2060-2069	1,000
2070-2079	1,000
2080-2089	1,000
2090-2099	1,000
2100-2109	1,000
2110-2119	1,000
2120-2129	1,000
2130-2139	1,000
2140-2149	1,000
2150-2159	1,000
2160-2169	1,000
2170-2179	1,000
2180-2189	1,000
2190-2199	1,000
2200-2209	1,000
2210-2219	1,000
2220-2229	1,000
2230-2239	1,000
2240-2249	1,000
2250-2259	1,000
2260-2269	1,000
2270-2279	1,000
2280-2289	1,000
2290-2299	1,000
2300-2309	1,000
2310-2319	1,000
2320-2329	1,000
2330-2339	1,000
2340-2349	1,000
2350-2359	1,000
2360-2369	1,000
2370-2379	1,000
2380-2389	1,000
2390-2399	1,000
2400-2409	1,000
2410-2419	1,000
2420-2429	1,000
2430-2439	1,000
2440-2449	1,000
2450-2459	1,000
2460-2469	1,000
2470-2479	1,000
2480-2489	1,000
2490-2499	1,000
2500-2509	1,000
2510-2519	1,000
2520-2529	1,000
2530-2539	1,000
2540-2549	1,000
2550-2559	1,000
2560-2569	1,000
2570-2579	1,000
2580-2589	1,000
2590-2599	1,000
2600-2609	1,000
2610-2619	1,000
2620-2629	1,000
2630-2639	1,000
2640-2649	1,000
2650-2659	1,000
2660-2669	1,000
2670-2679	1,000
2680-2689	1,000
2690-2699	1,000
2700-2709	1,000
2710-2719	1,000
2720-2729	1,000
2730-2739	1,000
2740-2749	1,000
2750-2759	1,000
2760-2769	1,000
2770-2779	1,000
2780-2789	1,000
2790-2799	1,000
2800-2809	1,000
2810-2819	1,000
2820-2829	1,000
2830-2839	1,000
2840-2849	1,000
2850-2859	1,000
2860-2869	1,000
2870-2879	1,000
2880-2889	1,000
2890-2899	1,000
2900-2909	1,000
2910-2919	1,000
2920-2929	1,000
2930-2939	1,000
2940-2949	1,000
2950-2959	1,000
2960-2969	1,000
2970-2979	1,000
2980-2989	1,000
2990-2999	1,000
3000-3009	1,000
3010-3019	1,000
3020-3029	1,000
3030-3039	1,000
3040-3049	1,000
3050-3059	1,000
3060-3069	1,000
3070-3079	1,000
3080-3089	1,000
3090-3099	1,000
3100-3109	1,000
3110-3119	1,000
3120-3129	1,000
3130-3139	1,000
3140-3149	1,000
3150-3159	1,000
3160-3169	1,000
3170-3179	1,000
3180-3189	1,000

[illegible]

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

16  
HOURS (L.S.T.)[illegible]

TOTAL NUMBER OF OBSERVATIONS

551

DIRNA VOCEANMET SMOS

SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEAR

JAN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING											
≥ 20000	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 18000	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 16000	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 14000	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 12000	56.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 10000	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 9000	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 8000	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 7000	69.0	69.7	69.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 6000	69.7	70.3	70.3	70.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 5000	69.7	71.0	71.0	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 4500	71.0	72.3	72.3	72.3	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 4000	71.0	72.3	72.3	72.3	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 3500	72.9	74.2	74.2	74.2	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 3000	73.6	75.5	75.5	75.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 2500	80.0	81.9	82.6	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 2000	80.7	82.6	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1800	80.7	83.2	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 1500	81.9	85.2	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1200	81.9	85.8	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1000	84.5	89.0	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 900	85.2	89.7	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 800	85.2	89.7	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 700	85.8	90.3	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 600	85.8	90.3	93.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 500	85.8	90.3	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 400	85.8	90.3	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 300	85.8	90.3	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 200	85.8	90.3	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 100	85.8	90.3	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 0	85.8	90.3	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5

TOTAL NUMBER OF OBSERVATIONS

155



# CEILING VERSUS VISIBILITY

WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION NAME

73-77

STATION NAME

YEARS

JAN

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														≥ 0
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000		50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
18000		55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
16000		55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
14000		55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
12000		56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
10000		58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
9000		61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
8000		61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
7000		69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
6000		72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
5000		72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
4500		72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
4000		74.2	74.8	74.8	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
3500		74.2	74.8	74.8	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
3000		78.1	79.4	79.4	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
2500		80.7	81.9	81.9	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
2000		82.6	83.9	83.9	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
1800		82.6	83.9	83.9	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
1500		83.2	84.5	84.5	84.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
1200		85.2	86.5	86.5	86.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
1000		85.2	87.1	87.1	87.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
900		85.8	87.7	87.7	87.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
800		86.5	88.4	88.4	88.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
700		86.5	89.0	89.0	89.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
600		86.5	89.0	89.0	89.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
500		86.5	89.0	89.0	89.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
400		86.5	89.7	89.7	89.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
300		86.5	89.7	89.7	89.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
200		86.5	89.7	89.7	89.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
100		86.5	89.7	89.7	89.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
0		86.5	89.7	89.7	89.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

JAN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		47.8	48.6	49.3	49.6	49.7	49.8	49.9	49.9	49.9	49.9	49.9	49.9
≥ 20000		53.4	54.5	55.4	55.7	55.8	56.0	56.1	56.1	56.1	56.1	56.1	56.1
AI 18000		53.5	54.6	55.5	55.8	55.9	56.1	56.1	56.1	56.1	56.1	56.1	56.1
AI 16000		53.6	54.7	55.6	55.9	56.0	56.1	56.2	56.2	56.2	56.2	56.2	56.2
AI 14000		53.9	55.0	55.9	56.2	56.3	56.5	56.5	56.5	56.5	56.5	56.5	56.5
AI 12000		55.1	56.2	57.1	57.4	57.5	57.7	57.7	57.7	57.7	57.7	57.7	57.7
AI 10000		58.7	60.3	61.3	61.6	61.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9
AI 9000		58.8	60.4	61.4	61.7	61.8	61.9	62.0	62.0	62.0	62.0	62.0	62.0
AI 8000		63.9	65.7	66.9	67.4	67.6	67.7	67.8	67.8	67.8	67.8	67.8	67.8
AI 7000		64.8	66.8	68.2	68.6	68.8	69.0	69.0	69.0	69.0	69.1	69.1	69.1
AI 6000		65.1	67.2	68.6	69.0	69.2	69.4	69.4	69.4	69.4	69.5	69.5	69.5
AI 5000		66.4	68.5	69.8	70.3	70.5	70.7	70.7	70.7	70.7	70.8	70.8	70.8
AI 4500		66.9	69.1	70.5	71.1	71.2	71.4	71.5	71.5	71.5	71.5	71.5	71.5
AI 4000		68.8	71.1	72.4	73.0	73.2	73.3	73.4	73.4	73.4	73.5	73.5	73.5
AI 3500		69.6	71.9	73.3	73.9	74.0	74.2	74.3	74.3	74.3	74.4	74.4	74.4
AI 3000		72.7	75.2	76.7	77.4	77.7	77.8	78.0	78.0	78.0	78.1	78.1	78.1
AI 2500		73.8	76.5	78.0	78.8	79.2	79.4	79.5	79.5	79.5	79.6	79.6	79.6
AI 2000		75.7	78.6	80.3	81.1	81.5	81.8	81.9	81.9	81.9	82.0	82.0	82.0
AI 1800		76.0	79.0	81.0	81.8	82.2	82.4	82.6	82.6	82.6	82.7	82.7	82.7
AI 1500		76.8	80.1	82.1	83.0	83.4	83.9	84.2	84.2	84.2	84.3	84.3	84.3
AI 1200		78.7	82.3	84.3	85.2	85.7	86.2	86.5	86.6	86.6	86.7	86.7	86.7
AI 1000		79.7	83.5	85.5	86.6	87.2	87.8	88.2	88.2	88.3	88.4	88.4	88.4
AI 900		80.1	84.0	86.2	87.3	87.9	88.6	88.9	89.0	89.0	89.1	89.1	89.1
AI 800		80.7	84.8	87.3	88.5	89.0	89.7	90.1	90.2	90.3	90.4	90.4	90.4
AI 700		81.0	85.4	88.2	89.4	90.1	90.8	91.2	91.3	91.5	91.5	91.7	91.7
AI 600		81.1	85.7	88.7	90.2	91.1	91.8	92.3	92.3	92.5	92.6	92.7	92.7
AI 500		81.1	85.9	89.4	91.1	92.1	93.0	93.6	93.7	93.9	94.0	94.1	94.1
AI 400		81.1	86.1	90.0	92.1	93.1	94.3	95.3	95.4	95.7	96.0	96.1	96.1
AI 300		81.1	86.1	90.2	92.3	93.4	94.7	96.1	96.1	96.7	97.0	97.3	97.3
AI 200		81.1	86.1	90.3	92.4	93.6	94.8	96.3	96.4	96.9	97.5	98.1	98.6
AI 100		81.1	86.1	90.3	92.4	93.6	94.8	96.3	96.4	96.9	97.4	98.2	98.6
0		81.1	86.1	90.3	92.4	93.6	94.8	96.3	96.4	96.9	97.4	98.2	98.6

1240

TOTAL NUMBER OF OBSERVATIONS

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13750  
STATIONNORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

FEB  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)01  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING		58.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 20000		66.7	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 18000		66.7	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 16000		66.7	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 14000		66.7	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 12000		66.7	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 10000		66.1	68.8	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 9000		68.8	69.5	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 8000		73.1	73.8	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 7000		73.1	73.8	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 6000		74.5	75.2	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 5000		75.9	76.6	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4500		76.6	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 4000		77.2	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 3500		78.0	79.4	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 3000		82.3	83.7	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 2500		83.7	85.1	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 2000		84.4	85.8	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 1800		85.1	86.5	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 1500		85.8	87.2	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1200		86.5	87.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 1000		87.2	88.7	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 900		87.9	89.4	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 800		87.9	89.4	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 700		89.4	90.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 600		90.1	92.2	93.6	94.3	94.3	95.7	95.7	95.7	95.7	95.7	95.7
≥ 500		90.1	92.9	94.3	95.0	95.0	96.5	96.5	96.5	96.5	96.5	96.5
≥ 400		90.1	92.9	95.0	96.5	96.5	97.9	97.9	97.9	97.9	97.9	97.9
≥ 300		90.1	92.9	95.0	96.5	96.5	97.9	97.9	97.9	97.9	97.9	97.9
≥ 200		90.1	92.9	95.0	96.5	96.5	98.6	98.6	98.6	98.6	98.6	98.6
≥ 100		90.1	92.9	95.0	96.5	96.5	98.6	98.6	98.6	98.6	98.6	98.6
≥ 0		90.1	92.9	95.0	96.5	96.5	98.6	98.6	98.6	98.6	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS

141

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION  
13750

STATION NAME  
NORFOLK, VIRGINIA

YEARS  
73-77

MONTH  
FEB

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)  
04

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING		54.6	55.3	55.3	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 20000		60.3	61.0	61.0	61.7	61.7	61.7	61.7	61.7	61.7	61.7
18000		60.3	61.0	61.0	61.7	61.7	61.7	61.7	61.7	61.7	61.7
16000		60.3	61.0	61.0	61.7	61.7	61.7	61.7	61.7	61.7	61.7
14000		60.3	61.0	61.0	61.7	61.7	61.7	61.7	61.7	61.7	61.7
12000		61.7	62.4	62.4	63.1	63.1	63.1	63.1	63.1	63.1	63.1
10000		66.7	67.4	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1
9000		66.7	67.4	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1
8000		72.3	73.1	73.8	74.5	75.2	75.2	75.2	75.2	75.2	75.2
7000		74.5	75.2	75.9	76.6	77.3	77.3	77.3	77.3	77.3	77.3
6000		75.2	75.9	76.6	77.3	78.0	78.0	78.0	78.0	78.0	78.0
5000		75.9	76.6	77.3	78.0	78.7	78.7	78.7	78.7	78.7	78.7
4500		76.6	77.3	78.0	78.7	79.4	79.4	79.4	79.4	79.4	79.4
4000		76.6	77.3	78.0	78.7	79.4	79.4	79.4	79.4	79.4	79.4
3500		77.3	78.0	78.7	79.4	80.1	80.1	80.1	80.1	80.1	80.1
3000		81.6	83.0	83.7	84.4	85.1	85.1	85.1	85.1	85.1	85.1
2500		81.6	83.0	83.7	84.4	85.1	85.1	85.1	85.1	85.1	85.1
2000		84.4	85.8	86.5	87.2	87.9	87.9	87.9	87.9	87.9	87.9
1800		84.4	85.8	86.5	87.2	87.9	87.9	87.9	87.9	87.9	87.9
1500		85.1	87.2	87.9	88.7	89.4	89.4	89.4	89.4	89.4	89.4
1200		85.8	87.9	88.7	89.4	90.1	90.1	90.1	90.1	90.1	90.1
1000		85.8	87.9	88.7	89.4	90.1	90.1	90.1	90.1	90.1	90.1
900		85.8	87.9	88.7	89.4	90.1	90.1	90.1	90.1	90.1	90.1
800		86.5	88.7	89.4	90.1	90.8	90.8	90.8	90.8	90.8	90.8
700		87.2	89.4	90.1	90.8	91.5	91.5	91.5	91.5	91.5	91.5
600		87.9	90.1	92.2	92.9	93.6	93.6	93.6	93.6	93.6	93.6
500		87.9	90.1	92.2	92.9	93.6	93.6	93.6	93.6	93.6	93.6
400		87.9	90.8	92.9	93.6	94.3	94.3	94.3	94.3	94.3	94.3
300		87.9	90.8	92.9	93.6	94.3	94.3	94.3	94.3	94.3	94.3
200		87.9	90.8	92.9	93.6	94.3	94.3	94.3	94.3	94.3	94.3
100		87.9	90.8	92.9	93.6	94.3	94.3	94.3	94.3	94.3	94.3
0		87.9	90.8	92.9	93.6	94.3	94.3	94.3	94.3	94.3	94.3

TOTAL NUMBER OF OBSERVATIONS

141



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA

G. STATION NAME

73-77

YEARS

FEB  
MONTH

07

HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		51.1	52.5	53.9	53.9	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
≥ 18000		54.6	56.0	56.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 16000		54.6	56.0	58.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 14000		54.6	56.0	58.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 12000		55.3	56.7	58.9	59.6	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 10000		61.7	63.1	65.3	66.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 9000		61.7	63.1	65.3	66.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 8000		66.0	67.4	69.5	70.2	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 7000		66.7	68.1	70.2	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 6000		66.7	68.1	70.2	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 5000		68.8	70.2	72.3	73.1	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 4500		69.5	70.9	73.1	73.8	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 4000		71.6	73.1	75.2	75.9	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 3500		73.1	74.5	76.6	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 3000		76.6	78.0	80.1	80.9	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 2500		78.0	79.4	81.6	82.3	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 2000		79.4	80.9	83.0	83.7	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 1800		79.4	80.9	83.0	83.7	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 1500		80.1	81.6	83.7	84.4	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 1200		80.1	81.6	83.7	84.4	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 1000		82.3	83.7	86.5	87.2	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 900		82.3	83.7	86.5	87.2	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 800		83.0	84.4	86.7	89.4	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 700		83.0	84.4	86.7	89.4	90.8	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 600		83.0	84.4	86.7	89.4	91.5	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 500		83.0	84.4	86.7	90.1	92.2	94.3	95.0	95.0	95.0	95.0	95.0	95.0
≥ 400		83.0	84.4	86.7	90.1	92.2	94.3	95.0	95.0	95.0	95.0	95.0	95.0
≥ 300		83.0	84.4	86.7	90.1	92.2	94.3	95.0	95.0	95.0	95.0	95.0	95.0
≥ 200		83.0	84.4	86.7	90.1	92.2	94.3	95.0	95.0	95.0	95.0	95.0	95.0
≥ 100		83.0	84.4	86.7	90.1	92.2	94.3	95.0	95.0	95.0	95.0	95.0	95.0
0		83.0	84.4	86.7	90.1	92.2	94.3	95.0	95.0	95.0	95.0	95.0	95.0

TOTAL NUMBER OF OBSERVATIONS

141

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

FEB

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)10  
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING												
≥ 20000		49.7	52.5	53.2	53.2	53.2	53.2	53.9	53.9	53.9	53.9	53.9
≥ 18000		56.0	58.9	59.6	60.3	60.3	60.3	61.0	61.0	61.0	61.0	61.0
≥ 16000		56.0	58.9	59.6	60.3	60.3	60.3	61.0	61.0	61.0	61.0	61.0
≥ 14000		56.7	59.6	60.3	61.0	61.0	61.0	61.7	61.7	61.7	61.7	61.7
≥ 12000		56.7	60.3	61.0	61.7	61.7	61.7	62.4	62.4	62.4	62.4	62.4
≥ 10000		61.0	65.3	66.0	66.7	66.7	66.7	67.4	67.4	67.4	67.4	67.4
≥ 9000		61.0	65.3	66.0	66.7	66.7	66.7	67.4	67.4	67.4	67.4	67.4
≥ 8000		66.7	71.6	72.3	73.1	73.1	73.1	73.8	73.8	73.8	73.8	73.8
≥ 7000		67.4	72.3	73.1	73.8	73.8	73.8	74.5	74.5	74.5	74.5	74.5
≥ 6000		67.4	72.3	73.1	73.8	73.8	73.8	74.5	74.5	74.5	74.5	74.5
≥ 5000		68.8	74.5	75.2	75.9	75.9	75.9	76.6	76.6	76.6	76.6	76.6
≥ 4500		70.9	76.6	77.3	78.0	78.0	78.0	78.7	78.7	78.7	78.7	78.7
≥ 4000		72.3	78.0	78.7	80.1	80.1	80.1	80.9	80.9	80.9	80.9	80.9
≥ 3500		73.1	79.4	80.1	81.6	81.6	81.6	82.3	82.3	82.3	82.3	82.3
≥ 3000		73.1	79.4	80.1	82.3	82.3	82.3	83.0	83.0	83.0	83.0	83.0
≥ 2500		73.8	80.9	81.6	83.7	83.7	83.7	84.4	84.4	84.4	84.4	84.4
≥ 2000		75.2	83.0	83.7	85.8	85.8	85.8	86.5	86.5	86.5	86.5	86.5
≥ 1800		75.2	83.0	84.4	86.5	86.5	86.5	87.2	87.2	87.2	87.2	87.2
≥ 1500		75.9	83.7	85.1	87.2	87.2	87.2	87.9	87.9	87.9	87.9	87.9
≥ 1200		75.9	83.7	85.1	87.2	87.2	87.2	87.9	87.9	87.9	87.9	87.9
≥ 1000		75.9	83.7	85.1	87.2	87.2	87.2	87.9	87.9	87.9	87.9	87.9
≥ 900		76.6	84.4	85.8	88.7	88.7	88.7	89.4	89.4	89.4	89.4	89.4
≥ 800		76.6	84.4	86.5	89.4	89.4	89.4	90.1	90.1	90.1	90.1	90.1
≥ 700		76.6	84.4	86.5	89.4	89.4	89.4	90.1	90.1	90.1	90.1	90.1
≥ 600		76.6	84.4	87.2	90.1	90.1	90.1	90.8	91.5	92.2	92.2	92.2
≥ 500		76.6	84.4	87.2	90.1	90.1	90.1	91.5	92.2	92.9	93.6	93.6
≥ 400		76.6	84.4	87.2	92.2	92.2	92.2	93.6	94.3	95.0	95.0	95.0
≥ 300		76.6	84.4	87.2	92.2	92.2	92.2	93.6	94.3	95.0	95.0	95.0
≥ 200		76.6	84.4	87.2	92.2	92.2	92.2	93.6	94.3	95.0	95.0	95.0
≥ 100		76.6	84.4	87.2	92.2	92.2	92.2	93.6	94.3	95.0	95.0	95.0
0		76.6	84.4	87.2	92.2	92.2	92.2	93.6	94.3	95.0	95.0	95.0

TOTAL NUMBER OF OBSERVATIONS

141



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750

NORFOLK, VIRGINIA

73-77

FEB

STATION NAME

YEAR

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		52.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
≥ 18000		58.2	60.3	61.0	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 16000		58.9	61.0	61.7	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 14000		58.9	61.0	61.7	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 12000		60.3	62.4	63.1	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥ 10000		64.5	66.7	68.1	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 9000		64.5	66.7	68.1	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 8000		70.2	72.3	73.8	74.5	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 7000		72.3	75.2	76.6	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 6000		73.1	75.9	77.3	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 5000		74.5	77.3	78.7	79.4	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 4500		75.2	78.0	79.4	80.1	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 4000		75.9	79.4	80.9	81.6	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 3500		76.6	80.1	81.6	82.3	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 3000		77.3	80.9	82.3	83.0	83.7	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 2500		77.3	80.9	82.3	83.0	83.7	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 2000		80.1	84.4	85.8	86.5	87.2	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 1800		80.1	84.4	85.8	86.5	87.2	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 1500		80.1	84.4	85.8	86.5	87.2	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 1200		80.9	85.1	87.2	87.9	88.7	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 1000		81.6	85.8	87.9	89.4	90.8	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 900		81.6	85.8	87.9	90.1	91.5	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 800		81.6	85.8	87.9	90.1	91.5	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 700		81.6	85.8	87.9	90.1	91.5	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 600		81.6	85.8	87.9	90.1	91.5	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 500		82.3	86.5	90.1	93.6	95.0	95.7	96.5	96.5	96.5	96.5	96.5	96.5
≥ 400		82.3	86.5	90.1	94.3	95.7	96.5	97.2	97.2	97.2	97.2	97.2	97.2
≥ 300		82.3	86.5	90.1	94.3	95.7	96.5	97.2	97.2	97.2	97.2	97.2	97.2
≥ 200		82.3	86.5	90.1	94.3	95.7	96.5	97.2	97.2	97.2	97.2	97.2	97.2
≥ 100		82.3	86.5	90.1	94.3	95.7	96.5	97.2	97.2	97.2	97.2	97.2	97.2
≥ 0		82.3	86.5	90.1	94.3	95.7	96.5	97.2	97.2	97.2	97.2	97.2	97.2

141

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

STATION  
13750

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

MONTH  
FEB

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)  
16

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		50.4	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
AI 18000		60.3	61.7	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
AI 16000		60.3	61.7	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
AI 14000		60.3	61.7	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
AI 12000		60.3	61.7	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
AI 10000		63.8	66.0	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
AI 9000		64.5	66.7	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
AI 8000		68.1	70.2	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
AI 7000		69.5	71.6	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
AI 6000		70.9	73.1	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
AI 5000		71.6	73.8	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
AI 4500		74.5	76.6	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
AI 4000		75.2	77.3	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
AI 3500		75.2	77.3	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
AI 3000		77.3	79.4	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
AI 2500		78.7	80.9	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
AI 2000		80.1	82.3	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
AI 1800		80.1	82.3	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
AI 1500		80.9	83.7	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
AI 1200		80.9	83.7	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
AI 1000		80.9	83.7	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
AI 900		80.9	83.7	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
AI 800		80.9	83.7	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
AI 700		80.9	84.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
AI 600		80.9	84.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
AI 500		80.9	84.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
AI 400		80.9	84.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
AI 300		80.9	84.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
AI 200		80.9	84.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
AI 100		80.9	84.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
AI 0		80.9	84.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4

TOTAL NUMBER OF OBSERVATIONS

141

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

FEB  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 20000	64.5	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 18000	64.5	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 16000	64.5	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 14000	64.5	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 12000	65.3	66.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 10000	69.5	70.2	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 9000	69.5	70.2	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 8000	76.6	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 7000	76.6	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 6000	76.6	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 5000	77.3	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 4500	78.0	80.1	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 4000	78.7	80.9	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 3500	79.4	81.6	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 3000	81.6	83.7	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 2500	82.3	84.4	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 2000	83.0	85.1	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1800	83.7	85.8	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 1500	83.7	86.5	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 1200	84.4	87.2	89.4	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 1000	85.8	88.7	90.8	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 900	85.8	88.7	90.8	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 800	86.5	89.4	91.5	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 700	87.2	90.1	92.2	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 600	87.2	90.1	92.2	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 500	87.9	90.8	92.9	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 400	87.9	90.8	92.9	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 300	87.9	90.8	92.9	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 200	87.9	90.8	92.9	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 100	87.9	90.8	92.9	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 0	87.9	90.8	92.9	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3

TOTAL NUMBER OF OBSERVATIONS

141



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

FEB  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		55.3	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 18000		61.7	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 16000		61.7	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 14000		61.7	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 12000		63.8	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 10000		67.4	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 9000		68.8	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 8000		73.1	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 7000		74.5	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 6000		75.2	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 5000		75.2	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 4500		76.6	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 4000		78.7	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 3500		80.1	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 3000		82.3	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 2500		83.0	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 2000		83.0	84.4	84.4	84.4	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 1800		83.0	84.4	84.4	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 1500		86.5	87.9	87.9	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1200		86.5	88.7	88.7	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 1000		87.2	89.4	89.4	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 900		87.2	89.4	89.4	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 800		88.7	90.8	90.8	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 700		89.4	92.2	92.2	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 600		89.4	92.2	92.2	93.6	93.6	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 500		89.4	92.2	93.6	95.0	95.0	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 400		89.4	92.2	93.6	95.0	95.0	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 300		89.4	92.2	93.6	95.0	95.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 200		89.4	92.2	93.6	95.0	95.7	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 100		89.4	92.2	93.6	95.0	95.7	97.2	97.2	97.2	97.2	97.2	97.2	97.2
0		89.4	92.2	93.6	95.0	95.7	97.2	97.2	97.2	97.2	97.2	97.2	97.2

TOTAL NUMBER OF OBSERVATIONS

141



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

FEB  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16	≥ ¼
NO CEILING													
≥ 20000		53.6	54.9	55.2	55.3	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.5
≥ 18000		60.3	61.7	62.5	62.9	62.9	62.9	63.0	63.0	63.0	63.0	63.0	63.0
≥ 16000		60.4	61.8	62.6	62.9	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1
≥ 14000		60.4	61.8	62.6	62.9	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1
≥ 12000		60.5	61.9	62.7	63.0	63.1	63.1	63.2	63.2	63.2	63.2	63.2	63.2
≥ 10000		61.3	62.8	63.6	63.9	64.0	64.0	64.1	64.1	64.1	64.1	64.1	64.1
≥ 9000		65.3	67.0	67.9	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 8000		65.7	67.4	68.3	68.6	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8
≥ 7000		70.7	72.5	73.5	73.9	74.0	74.1	74.2	74.2	74.2	74.2	74.2	74.2
≥ 6000		71.8	73.7	74.7	75.0	75.2	75.3	75.4	75.4	75.4	75.4	75.4	75.4
≥ 5000		72.4	74.3	75.3	75.6	75.8	75.9	76.0	76.0	76.0	76.0	76.0	76.0
≥ 4500		73.5	75.5	76.5	76.9	77.0	77.1	77.2	77.2	77.2	77.2	77.2	77.2
≥ 4000		74.7	77.0	77.9	78.3	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 3500		75.8	78.1	79.1	79.5	79.7	79.8	79.9	79.9	79.9	79.9	79.9	79.9
≥ 3000		76.6	79.0	80.1	80.5	80.7	80.8	80.9	80.9	80.9	80.9	80.9	80.9
≥ 2500	.1	79.0	81.5	82.5	83.1	83.2	83.4	83.5	83.5	83.5	83.5	83.5	83.5
≥ 2000	.1	79.8	82.4	83.5	84.0	84.2	84.4	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1800	.1	81.2	84.0	85.3	85.9	86.1	86.3	86.4	86.4	86.4	86.4	86.4	86.4
≥ 1500	.1	81.4	84.1	85.6	86.2	86.4	86.5	86.6	86.7	86.7	86.7	86.7	86.7
≥ 1200	.1	82.3	85.3	86.7	87.3	87.5	87.7	87.8	87.9	87.9	87.9	87.9	87.9
≥ 1000	.1	82.6	85.7	87.4	88.1	88.4	88.6	88.7	88.7	88.8	88.8	88.8	88.8
≥ 900	.1	83.3	86.4	88.3	89.1	89.5	89.6	89.7	89.8	89.9	89.9	89.9	89.9
≥ 800	.1	83.5	86.6	88.5	89.5	89.9	90.1	90.2	90.3	90.3	90.3	90.3	90.3
≥ 700	.1	84.0	87.1	89.3	90.4	90.8	91.0	91.1	91.1	91.2	91.2	91.2	91.2
≥ 600	.1	84.4	87.7	89.9	91.1	91.5	91.9	92.1	92.2	92.3	92.3	92.3	92.3
≥ 500	.1	84.6	87.9	90.6	92.1	92.7	93.4	93.5	93.6	93.6	93.8	93.8	93.8
≥ 400	.1	84.8	88.2	91.1	92.8	93.6	94.6	94.9	95.0	95.0	95.3	95.3	95.3
≥ 300	.1	84.8	88.3	91.2	93.4	94.4	95.5	95.7	95.8	96.2	96.5	96.6	96.6
≥ 200	.1	84.8	88.3	91.2	93.5	94.7	95.7	96.1	96.2	96.7	97.1	97.2	97.2
≥ 100	.1	84.8	88.3	91.2	93.5	94.8	96.0	96.4	96.5	97.0	97.4	97.5	97.5
0	.1	84.8	88.3	91.2	93.5	94.8	96.0	96.4	96.5	97.0	97.4	97.5	97.5

TOTAL NUMBER OF OBSERVATIONS 1128

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750

NORFOLK, VIRGINIA

73-77

MAR

STATION

STATION NAME

YEARS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MORPH

01

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING												
≥ 20000	50.3	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 18000	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 16000	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 14000	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 12000	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 10000	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 9000	60.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 8000	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 7000	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 6000	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 5000	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 4500	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 4000	73.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 3500	74.2	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 3000	75.5	76.8	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 2500	77.4	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 2000	79.4	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 1800	79.4	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 1500	80.7	81.9	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 1200	83.9	85.2	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 1000	83.9	87.7	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 900	84.5	88.4	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 800	84.5	88.4	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 700	84.5	88.4	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 600	84.5	89.0	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 500	84.5	89.7	91.0	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 400	84.5	89.7	91.0	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 300	84.5	89.7	91.0	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 200	84.5	89.7	91.0	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 100	84.5	89.7	91.0	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
0	84.5	89.7	91.0	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

MAR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		47.7	49.0	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
≥ 20000		52.3	53.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 18000		52.3	53.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 16000		52.3	53.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 14000		52.3	53.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 12000		52.9	54.2	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 10000		56.1	57.4	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 9000		56.8	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 8000		62.6	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 7000		63.9	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 6000		63.9	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 5000		65.2	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 4500		65.8	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 4000		68.4	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 3500		69.7	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 3000		71.0	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 2500		71.6	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 2000		73.6	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 1800		74.2	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 1500		77.4	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 1200		78.7	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 1000		83.2	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 900		83.2	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 800		83.2	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 700		83.9	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 600		83.9	87.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 500		83.9	87.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 400		83.9	87.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 300		83.9	88.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 200		83.9	88.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 100		83.9	88.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
0		83.9	88.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7

155

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

MAR  
MONTH

07

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING		41.3	45.2	45.8	46.5	46.5	47.1	47.1	47.1	47.1	47.7	47.7
≥ 20000		48.4	52.3	52.9	53.6	53.6	54.2	54.2	54.2	54.2	54.8	54.8
≥ 18000		48.4	52.3	52.9	53.6	53.6	54.2	54.2	54.2	54.2	54.8	54.8
≥ 16000		48.4	52.3	52.9	53.6	53.6	54.2	54.2	54.2	54.2	54.8	54.8
≥ 14000		49.0	52.9	53.6	54.2	54.2	54.8	54.8	54.8	54.8	55.5	55.5
≥ 12000		51.0	54.8	55.5	56.1	56.1	56.8	56.8	56.8	56.8	57.4	57.4
≥ 10000		53.6	57.4	58.7	59.4	59.4	60.0	60.0	60.0	60.0	60.7	60.7
≥ 9000		53.6	57.4	58.7	59.4	59.4	60.0	60.0	60.0	60.0	60.7	60.7
≥ 8000		57.4	61.9	63.2	63.9	63.9	64.5	64.5	64.5	64.5	65.2	65.2
≥ 7000		58.7	63.2	64.5	65.2	65.2	65.8	65.8	65.8	65.8	66.5	66.5
≥ 6000		58.7	63.2	64.5	65.2	65.2	65.8	65.8	65.8	65.8	66.5	66.5
≥ 5000		60.0	65.2	66.5	67.1	67.1	67.7	67.7	67.7	67.7	68.4	68.4
≥ 4500		61.9	67.1	68.4	69.0	69.0	70.3	70.3	70.3	70.3	71.0	71.0
≥ 4000		63.2	68.4	69.7	70.3	70.3	72.3	72.3	72.3	72.3	72.9	72.9
≥ 3500		63.9	69.0	70.3	71.0	71.0	72.9	72.9	72.9	72.9	73.6	73.6
≥ 3000		64.5	70.3	71.6	72.3	72.3	74.2	74.2	74.2	74.2	74.8	74.8
≥ 2500		64.5	70.3	71.6	72.3	72.3	74.2	74.2	74.2	74.2	74.8	74.8
≥ 2000		65.8	73.6	74.8	75.5	75.5	77.4	78.1	78.1	78.1	78.7	78.7
≥ 1800		66.5	74.2	75.5	76.1	76.1	78.1	78.7	78.7	78.7	79.4	79.4
≥ 1500		67.7	76.1	77.4	78.1	78.1	80.0	80.7	80.7	80.7	81.3	81.3
≥ 1200		68.4	77.4	79.4	80.7	81.3	82.6	83.2	83.2	83.2	83.9	83.9
≥ 1000		68.4	77.4	79.4	81.3	81.3	83.2	83.9	83.9	83.9	84.5	84.5
≥ 900		69.0	79.4	81.3	83.2	83.2	85.6	86.3	86.3	86.3	87.1	87.1
≥ 800		69.7	80.0	81.9	83.9	83.9	86.3	87.7	87.7	87.7	88.4	88.4
≥ 700		69.7	80.0	81.9	83.9	83.9	86.3	87.7	87.7	87.7	88.4	88.4
≥ 600		69.7	80.0	81.9	84.5	84.5	87.7	89.0	89.0	89.0	89.7	89.7
≥ 500		70.3	80.7	82.6	85.2	85.2	87.7	89.0	89.0	89.0	91.0	91.0
≥ 400		70.3	81.3	83.2	85.8	85.8	90.3	91.6	91.6	91.6	92.3	92.3
≥ 300		70.3	81.9	83.9	86.5	86.5	91.0	92.3	92.3	92.3	92.9	92.9
≥ 200		71.0	82.6	84.5	87.1	87.1	91.6	92.9	92.9	92.9	93.6	93.6
≥ 100		71.0	82.6	84.5	87.1	87.1	91.6	92.9	92.9	92.9	93.6	93.6
0		71.0	82.6	84.5	87.1	87.1	91.6	92.9	92.9	92.9	93.6	93.6

TOTAL NUMBER OF OBSERVATIONS

155

AD-A060 543

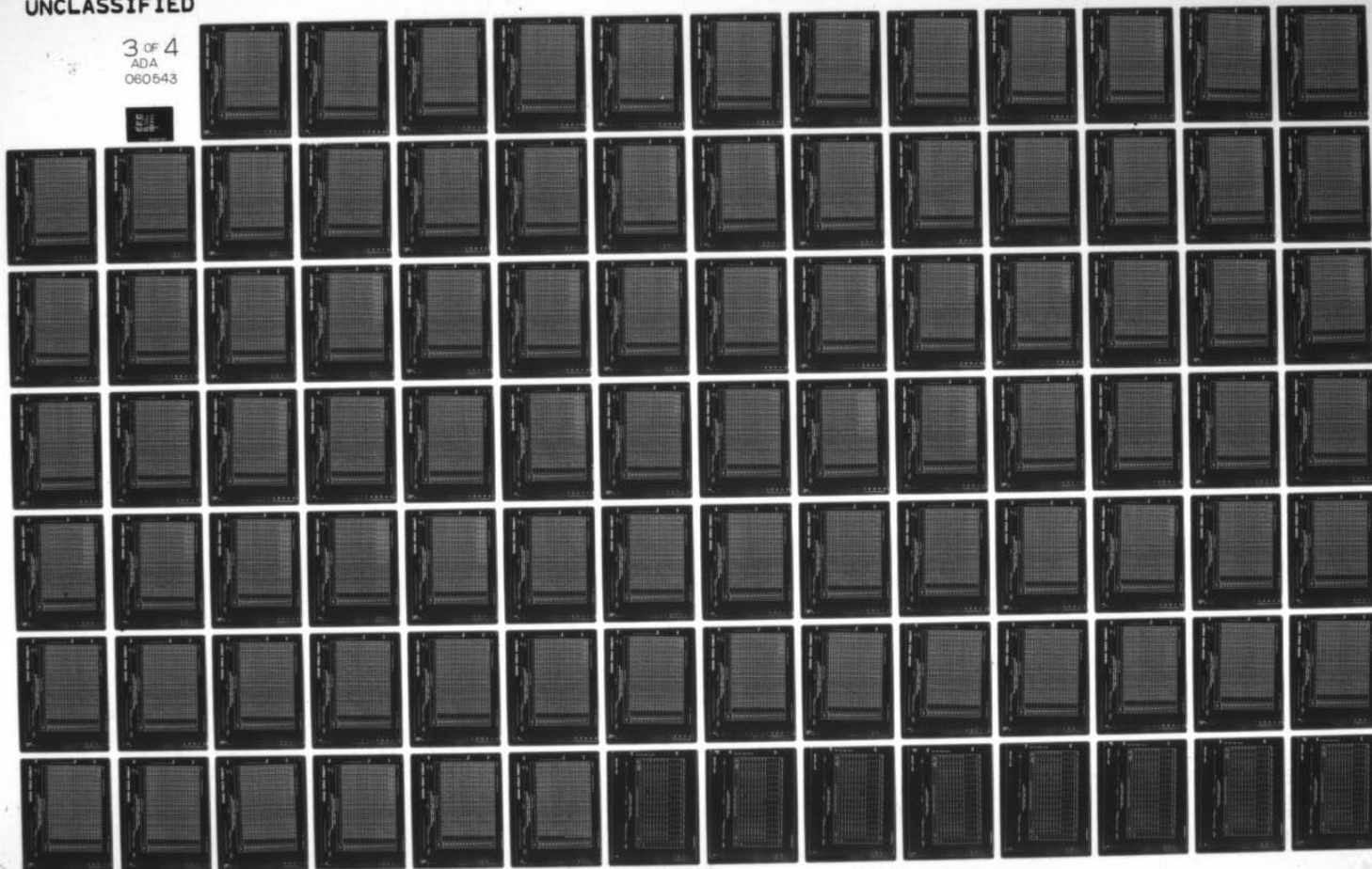
NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C  
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS) NORFOLK,--ETC(U)  
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2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

MAR  
MONTH10  
HOURS (L.S.T.)PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														≥ 0
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	
NO CEILING															
≥ 20000		40.0	41.9	42.6	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
≥ 18000		51.0	54.2	54.8	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 16000		51.0	54.2	54.8	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 14000		51.0	54.2	54.8	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 12000		52.3	55.5	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 10000		53.6	56.8	57.4	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 9000		57.4	60.7	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 8000		58.1	61.3	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 7000		60.7	63.9	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 6000		61.9	65.2	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 5000		61.9	65.2	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 4500		63.9	67.1	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 4000		63.9	67.1	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 3500		64.5	68.4	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 3000		65.2	69.0	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 2500		65.8	69.7	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 2000		67.1	71.0	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 1800		68.4	72.3	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 1500		69.0	72.9	74.2	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 1200		71.0	74.8	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 1000		72.3	77.4	79.4	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 900		73.6	78.7	80.7	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 800		74.2	79.4	81.3	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 700		74.2	79.4	81.3	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 600		74.2	79.4	81.3	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 500		74.2	79.4	81.3	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 400		74.2	79.4	81.3	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 300		74.2	79.4	81.3	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 200		74.2	79.4	81.3	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 100		74.2	79.4	81.3	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
0		74.2	79.4	81.3	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

MAR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		43.9	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 18000		50.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 16000		50.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 14000		51.0	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 12000		52.9	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 10000		59.4	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 9000		60.0	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 8000		61.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 7000		62.6	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 6000		62.6	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 5000		62.6	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 4500		62.6	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 4000		63.9	66.5	66.5	66.5	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 3500		65.8	68.4	68.4	68.4	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 3000		71.6	74.2	74.2	74.2	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 2500		74.8	78.1	78.1	78.1	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 2000		75.5	79.4	79.4	79.4	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 1800		75.5	79.4	79.4	79.4	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 1500		76.8	80.7	80.7	80.7	81.3	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 1200		77.4	81.9	81.9	81.9	82.6	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1000		78.1	83.2	83.2	83.2	84.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 900		79.4	84.5	84.5	84.5	85.8	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 800		79.4	86.5	86.5	86.5	87.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 700		79.4	86.5	86.5	86.5	88.4	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 600		80.0	87.1	87.1	87.1	89.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 500		80.0	87.1	87.1	87.1	89.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 400		80.0	87.1	87.1	87.1	89.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 300		80.0	87.1	87.1	87.1	89.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 200		80.0	87.1	87.1	87.1	89.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 100		80.0	87.1	87.1	87.1	89.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 0		80.0	87.1	87.1	87.1	89.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9

TOTAL NUMBER OF OBSERVATIONS 155

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

MAR  
MONTH

16  
HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		40.7	40.7	40.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 18000		48.4	48.4	48.4	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 16000		48.4	48.4	48.4	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 14000		50.3	50.3	50.3	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 12000		51.6	51.6	51.6	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 10000		55.5	55.5	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 9000		56.1	56.1	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 8000		60.7	60.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 7000		61.9	62.6	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 6000		62.6	63.2	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 5000		63.2	63.9	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 4500		64.5	65.2	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 4000		67.7	68.4	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 3500		69.0	69.7	69.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 3000		74.2	74.8	74.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 2500		76.8	77.4	77.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 2000		78.1	79.4	79.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 1800		78.1	79.4	79.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 1500		79.4	81.3	81.3	82.6	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 1200		79.4	81.3	81.3	83.2	83.9	84.5	85.2	85.2	85.2	85.2	85.2	85.2
≥ 1000		80.0	82.6	83.9	85.2	85.8	86.5	87.1	87.1	87.1	87.1	87.1	87.1
≥ 900		80.7	83.9	85.2	86.5	87.1	87.7	88.4	88.4	88.4	88.4	88.4	88.4
≥ 800		81.3	84.5	85.8	87.1	87.7	88.4	89.0	89.0	89.0	89.0	89.0	89.0
≥ 700		81.3	84.5	86.5	87.7	88.4	89.0	89.7	89.7	89.7	89.7	89.7	89.7
≥ 600		81.3	84.5	86.5	87.7	89.0	90.3	91.0	91.0	91.0	91.0	91.0	91.0
≥ 500		81.3	84.5	86.5	88.4	89.7	93.6	94.2	94.2	94.2	94.2	94.2	94.2
≥ 400		81.3	84.5	86.5	88.4	89.7	94.8	95.5	95.5	95.5	96.1	96.1	96.1
≥ 300		81.3	84.5	86.5	88.4	89.7	94.8	95.5	95.5	95.5	96.1	96.1	96.1
≥ 200		81.3	84.5	86.5	88.4	89.7	94.8	95.5	95.5	96.1	97.4	97.4	97.4
≥ 100		81.3	84.5	86.5	88.4	89.7	94.8	95.5	95.5	96.1	97.4	97.4	97.4
0		81.3	84.5	86.5	88.4	89.7	94.8	95.5	95.5	96.1	97.4	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

MAR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING												
≥ 20000	43.2	43.9	43.9	43.9	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 18000	50.3	51.0	51.0	51.0	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 16000	50.3	51.0	51.0	51.0	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 14000	51.0	51.6	51.6	51.6	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 12000	52.3	52.9	52.9	52.9	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 10000	52.9	53.6	53.6	53.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 9000	58.1	58.7	58.7	58.7	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 8000	58.7	59.4	59.4	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 7000	65.3	66.5	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 6000	66.5	67.1	67.1	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 5000	66.5	67.1	67.1	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 4500	68.4	69.7	69.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 4000	73.6	74.8	74.8	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 3500	74.2	75.5	75.5	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 3000	77.4	78.7	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 2500	77.4	78.7	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 2000	80.0	81.3	81.3	81.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 1800	80.0	81.3	81.3	81.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 1500	80.0	82.6	82.6	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1200	81.3	84.5	84.5	84.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1000	81.9	85.2	85.2	85.2	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 900	81.9	85.2	85.2	85.2	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 800	82.6	85.8	85.8	85.8	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 700	82.6	87.1	87.1	87.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 600	82.6	87.1	87.1	87.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 500	82.6	87.1	87.1	87.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 400	82.6	87.1	87.1	87.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 300	82.6	87.1	87.1	87.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 200	82.6	87.1	87.1	87.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 100	82.6	87.1	87.1	87.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
0	82.6	87.1	87.1	87.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7

TOTAL NUMBER OF OBSERVATIONS

155



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

MAR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
≥ 20000	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 18000	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 16000	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 14000	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 12000	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 10000	60.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 9000	60.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 8000	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 7000	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 6000	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 5000	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 4500	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 4000	76.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 3500	77.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 3000	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 2500	80.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 2000	81.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1800	81.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1500	83.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1200	83.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1000	84.5	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 900	84.5	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 800	85.2	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 700	85.2	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 600	85.2	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 500	85.2	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 400	85.2	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 300	85.2	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 200	85.2	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 100	85.2	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
0	85.2	89.7	91.0	91.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA

73-77

YEARS

MAR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16	≥ ¼
NO CEILING		44.6	45.8	46.1	46.4	46.4	46.5	46.5	46.5	46.5	46.5	46.5	46.5
≥ 20000		51.4	52.8	53.1	53.4	53.4	53.4	53.5	53.5	53.5	53.6	53.6	53.6
18000		51.4	52.8	53.1	53.4	53.4	53.5	53.5	53.5	53.5	53.6	53.6	53.6
16000		51.5	52.9	53.2	53.5	53.5	53.6	53.6	53.6	53.6	53.6	53.6	53.6
14000		52.3	53.7	54.0	54.3	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4
12000		53.4	54.8	55.1	55.4	55.4	55.5	55.5	55.5	55.5	55.6	55.6	55.6
10000		57.4	59.0	59.3	59.6	59.6	59.7	59.7	59.7	59.7	59.8	59.8	59.8
9000		57.9	59.4	59.8	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2
8000		62.9	64.5	64.8	65.2	65.2	65.2	65.2	65.2	65.2	65.3	65.3	65.3
7000		64.0	65.7	66.1	66.4	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5
6000		64.2	66.0	66.3	66.6	66.6	66.7	66.7	66.7	66.7	66.8	66.8	66.8
5000		65.3	67.3	67.7	68.0	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2
4500		66.3	68.4	68.8	69.1	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4
4000		69.0	71.3	71.7	72.1	72.3	72.5	72.5	72.5	72.5	72.6	72.7	72.7
3500		69.9	72.3	72.7	73.2	73.3	73.6	73.6	73.6	73.6	73.7	73.8	73.8
3000		72.5	75.0	75.4	76.0	76.2	76.5	76.5	76.5	76.5	76.5	76.6	76.6
2500		73.7	76.4	76.8	77.3	77.6	77.8	77.8	77.8	77.8	77.9	78.0	78.0
2000		75.3	78.4	78.9	79.5	79.8	80.1	80.2	80.2	80.2	80.2	80.3	80.3
1800		75.6	78.6	79.1	79.8	80.1	80.3	80.4	80.4	80.4	80.5	80.6	80.6
1500		77.0	80.6	81.1	81.7	82.2	82.4	82.5	82.5	82.5	82.6	82.7	82.7
1200		78.2	82.1	83.0	84.0	84.4	84.8	84.9	84.9	84.9	85.0	85.1	85.1
1000		79.2	83.6	84.7	85.7	86.3	86.7	86.9	86.9	86.9	87.0	87.0	87.0
900		79.6	84.3	85.3	86.4	87.0	87.4	87.6	87.6	87.6	87.7	87.8	87.8
800		80.0	85.0	86.1	87.5	88.2	88.6	88.8	88.8	88.8	89.0	89.0	89.0
700		80.1	85.3	86.6	88.3	89.0	89.4	89.6	89.6	89.6	89.8	89.8	89.8
600		80.2	85.5	86.9	88.6	89.6	90.1	90.5	90.5	90.5	90.7	90.7	90.7
500		80.2	85.7	87.0	89.4	90.6	91.4	91.9	91.9	91.9	92.0	92.1	92.1
400		80.2	85.7	87.2	89.7	91.1	92.3	92.8	92.8	92.8	93.2	93.3	93.3
300		80.2	85.9	87.4	90.0	91.4	92.7	93.5	93.6	93.8	94.0	94.4	94.4
200		80.3	86.1	87.6	90.2	91.5	92.9	93.9	94.0	94.6	94.9	95.1	95.1
100		80.3	86.1	87.6	90.2	91.5	92.9	93.9	94.0	94.6	94.9	95.1	95.1
0		80.3	86.1	87.6	90.2	91.5	92.9	93.9	94.0	94.6	94.9	95.1	95.1

TOTAL NUMBER OF OBSERVATIONS

1240



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

APR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		62.7	64.0	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 20000		69.3	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 18000		69.3	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 16000		69.3	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 14000		69.3	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 12000		69.3	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 10000		76.7	79.3	79.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 9000		76.7	79.3	79.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 8000		78.7	81.3	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 7000		79.3	82.0	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 6000		82.0	84.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 5000		82.0	84.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 4500		83.3	86.0	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 4000		85.3	88.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 3500		86.0	88.7	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 3000		86.7	89.3	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 2500		87.3	90.0	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 2000		90.0	92.7	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1800		90.7	93.3	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1500		91.3	94.0	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1200		92.7	95.3	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1000		92.7	95.3	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 900		92.7	95.3	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 800		92.7	95.3	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 700		93.3	96.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 600		93.3	96.0	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 500		93.3	96.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 400		93.3	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300		93.3	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200		93.3	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100		93.3	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0		93.3	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750 STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

APR MONTH

04

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		62.7	63.3	63.3	63.3	63.3	63.3	64.0	64.0	64.0	64.0	64.0	64.0
≥ 20000		68.7	70.0	70.0	70.0	70.0	70.0	70.7	70.7	70.7	70.7	70.7	70.7
≥ 18000		68.7	70.0	70.0	70.0	70.0	70.0	70.7	70.7	70.7	70.7	70.7	70.7
≥ 16000		68.7	70.0	70.0	70.0	70.0	70.0	70.7	70.7	70.7	70.7	70.7	70.7
≥ 14000		68.7	70.0	70.0	70.0	70.0	70.0	70.7	70.7	70.7	70.7	70.7	70.7
≥ 12000		70.0	71.3	71.3	71.3	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0
≥ 10000		74.7	76.0	76.0	76.0	76.0	76.0	76.7	76.7	76.7	76.7	76.7	76.7
≥ 9000		74.7	76.0	76.0	76.0	76.0	76.0	76.7	76.7	76.7	76.7	76.7	76.7
8000		78.7	80.0	80.0	80.0	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7
7000		79.3	80.7	80.7	80.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3
6000		80.0	81.3	81.3	81.3	81.3	81.3	82.0	82.0	82.0	82.0	82.0	82.0
5000		80.7	82.0	82.0	82.0	82.0	82.0	82.7	82.7	82.7	82.7	82.7	82.7
4500		80.7	82.0	82.0	82.0	82.0	82.0	82.7	82.7	82.7	82.7	82.7	82.7
4000		83.3	84.7	84.7	84.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3
3500		84.7	86.7	86.7	86.7	86.7	86.7	87.3	87.3	87.3	87.3	87.3	87.3
3000		86.0	88.0	88.0	88.0	88.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7
2500		86.7	88.7	88.7	88.7	88.7	88.7	89.3	89.3	89.3	89.3	89.3	89.3
2000		87.3	90.0	90.0	90.0	90.0	90.0	90.7	90.7	90.7	90.7	90.7	90.7
1800		89.3	92.0	92.0	92.0	92.0	92.0	92.7	92.7	92.7	92.7	92.7	92.7
1500		90.0	92.7	92.7	92.7	92.7	92.7	93.3	93.3	93.3	93.3	93.3	93.3
1200		90.0	92.7	93.3	93.3	93.3	93.3	94.0	94.0	94.0	94.0	94.0	94.0
1000		90.0	93.3	94.0	94.0	94.0	94.0	94.7	94.7	94.7	94.7	94.7	94.7
900		90.7	94.0	94.7	94.7	94.7	94.7	95.3	95.3	95.3	95.3	95.3	95.3
800		90.7	94.7	95.3	95.3	95.3	95.3	96.0	96.0	96.0	96.0	96.0	96.0
700		90.7	94.7	96.0	96.0	96.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7
600		90.7	94.7	96.0	96.0	96.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7
500		90.7	94.7	96.7	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3
400		90.7	94.7	96.7	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3
300		90.7	94.7	96.7	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3
200		90.7	95.3	97.3	97.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0
100		90.7	95.3	97.3	97.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0
0		90.7	95.3	97.3	97.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

APR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING		54.0	58.7	59.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 20000		60.0	64.7	65.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
18000		60.0	64.7	65.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
16000		60.0	64.7	65.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
14000		60.0	64.7	65.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
12000		60.0	64.7	65.3	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
10000		64.0	68.7	69.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
9000		64.7	69.3	70.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
8000		70.0	76.0	76.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
7000		70.7	76.7	77.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
6000		71.3	77.3	78.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
5000		72.0	78.0	78.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
4500		72.7	78.7	79.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
4000		74.7	80.7	81.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
3500		74.7	80.7	81.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
3000		76.0	82.7	83.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
2500		78.7	85.3	86.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
2000		80.7	87.3	88.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
1800		80.7	87.3	88.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
1500		82.0	88.7	90.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
1200		82.0	90.0	91.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
1000		84.0	92.0	93.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
900		84.7	92.7	94.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
800		84.7	92.7	94.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
700		84.7	92.7	94.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
600		84.7	92.7	94.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
500		85.3	93.3	94.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
400		85.3	93.3	94.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
300		85.3	93.3	94.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
200		85.3	93.3	94.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
100		85.3	93.3	94.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
0		85.3	93.3	94.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

APR  
MONTH

10  
HOURS (L S T)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING												
≥ 20000		57.3	62.7	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
18000		63.3	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
16000		63.3	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
14000		63.3	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
12000		64.0	69.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
10000		65.3	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
9000		65.3	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
8000		70.7	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
7000		71.3	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
6000		71.3	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
5000		72.0	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
4500		73.3	79.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
4000		74.7	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
3500		77.3	84.0	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
3000		81.3	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
2500		82.7	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
2000		84.0	90.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
1800		84.0	90.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
1500		85.3	92.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
1200		85.3	92.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
1000		85.3	92.0	94.0	94.0	94.0	94.7	94.7	94.7	94.7	94.7	94.7
900		86.0	92.7	96.0	96.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7
800		86.0	92.7	96.7	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0
700		86.0	92.7	96.7	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0
600		86.0	92.7	97.3	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7
500		86.7	93.3	98.0	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3
400		86.7	93.3	98.0	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3
300		86.7	93.3	98.0	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3
200		86.7	93.3	98.0	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3
100		86.7	93.3	98.0	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3
0		86.7	93.3	98.0	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

APR  
MONTH13  
HOURS (LST)PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING		62.7	63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 20000		68.7	70.0	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
AI 18000		68.7	70.0	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
AI 16000		68.7	70.0	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
AI 14000		68.7	70.0	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
AI 12000		70.0	71.3	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
AI 10000		72.0	74.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
AI 9000		72.0	74.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
AI 8000		74.7	76.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
AI 7000		74.7	76.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
AI 6000		74.7	76.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
AI 5000		77.3	79.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
AI 4500		78.7	80.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
AI 4000		80.0	82.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
AI 3500		82.7	84.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
AI 3000		86.7	88.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
AI 2500		87.3	89.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
AI 2000		88.0	90.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
AI 1800		88.7	91.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
AI 1500		88.7	92.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
AI 1200		89.3	92.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
AI 1000		89.3	93.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
AI 900		89.3	94.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
AI 800		89.3	94.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
AI 700		89.3	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
AI 600		90.0	95.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
AI 500		90.0	95.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
AI 400		90.0	95.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
AI 300		90.0	95.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
AI 200		90.0	95.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
AI 100		90.0	95.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
AI 0		90.0	95.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7

TOTAL NUMBER OF OBSERVATIONS

150

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION  
13750

STATION NAME  
NORFOLK, VIRGINIA

YEARS  
73-77

MONTH  
APR

HOURS (L.S.T.)  
16

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		52.7	52.7	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 18000		62.7	63.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 16000		62.7	63.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 14000		62.7	63.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 12000		62.7	63.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 10000		63.3	64.0	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 9000		66.0	66.7	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 8000		66.0	66.7	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 7000		71.3	72.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 6000		71.3	72.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 5000		72.7	73.3	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 4500		72.7	74.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 4000		74.0	75.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 3500		80.0	81.3	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 3000		82.7	84.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 2500		88.7	90.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 2000		89.3	91.3	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1800		90.0	92.7	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1500		96.0	92.7	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1200		92.0	94.7	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1000		92.0	94.7	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 900		92.0	94.7	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 800		92.0	94.7	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 700		92.0	94.7	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 600		92.0	94.7	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 500		92.0	94.7	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 400		92.0	94.7	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 300		92.0	94.7	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 200		92.0	94.7	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 100		92.0	94.7	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
0		92.7	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3

TOTAL NUMBER OF OBSERVATIONS

150



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750

NORFOLK, VIRGINIA

73-77

APR

STATION NAME

YEARS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING		53.3	55.3	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 20000		60.0	62.7	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 18000		60.7	63.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 16000		60.7	63.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 14000		60.7	63.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 12000		60.7	63.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 10000		66.0	68.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 9000		66.0	64.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 8000		70.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 7000		70.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 6000		70.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 5000		71.3	74.7	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 4500		71.3	74.7	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 4000		74.7	78.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 3500		78.0	81.3	83.3	83.3	83.3	83.3	83.3	83.3	84.0	84.0	84.0	84.0	84.0
≥ 3000		84.0	88.0	90.0	90.0	90.0	90.0	90.0	90.0	90.7	90.7	90.7	90.7	90.7
≥ 2500		85.3	90.0	92.0	92.0	92.0	92.0	92.0	92.0	92.7	92.7	92.7	92.7	92.7
≥ 2000		86.0	90.7	92.7	92.7	92.7	92.7	92.7	92.7	93.3	93.3	93.3	93.3	93.3
≥ 1800		86.0	90.7	92.7	92.7	92.7	92.7	92.7	92.7	93.3	93.3	93.3	93.3	93.3
≥ 1500		87.3	92.7	94.7	94.7	94.7	94.7	94.7	94.7	95.3	95.3	95.3	95.3	95.3
≥ 1200		87.3	92.7	94.7	94.7	94.7	94.7	94.7	94.7	95.3	95.3	95.3	95.3	95.3
≥ 1000		87.3	92.7	95.3	96.0	96.7	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3
≥ 900		87.3	92.7	95.3	96.0	96.7	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3
≥ 800		87.3	92.7	95.3	96.0	96.7	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3
≥ 700		87.3	92.7	95.3	96.0	96.7	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3
≥ 600		87.3	92.7	95.3	96.0	96.7	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3
≥ 500		87.3	92.7	96.0	96.7	97.3	97.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0
≥ 400		87.3	92.7	96.0	96.7	97.3	97.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0
≥ 300		87.3	92.7	96.0	96.7	97.3	97.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0
≥ 200		87.3	92.7	96.0	96.7	97.3	97.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0
≥ 100		87.3	92.7	96.0	96.7	97.3	97.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0
0		87.3	92.7	96.0	96.7	97.3	97.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0

150

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

APR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														
≥ 20000		62.0	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 18000		69.3	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 16000		69.3	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 14000		69.3	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 12000		70.7	72.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 10000		77.3	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 9000		77.3	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
8000		82.0	84.0	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
7000		82.7	84.7	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
6000		83.3	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
5000		83.3	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
4500		84.0	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
4000		88.0	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
3500		90.0	92.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
3000		90.0	92.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
2500		90.7	92.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
2000		92.0	94.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
1800		92.7	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
1500		92.7	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
1200		92.7	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
1000		92.7	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
900		92.7	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
800		92.7	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
700		92.7	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
600		92.7	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
500		92.7	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
400		92.7	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
300		92.7	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
200		92.7	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
100		92.7	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
0		92.7	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0

TOTAL NUMBER OF OBSERVATIONS

150

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

APR  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING												
≥ 20000		58.4	60.4	60.8	61.2	61.2	61.2	61.3	61.3	61.3	61.3	61.3
≥ 18000		65.3	67.7	68.4	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 16000		65.3	67.8	68.5	68.8	68.8	68.8	68.9	68.9	68.9	68.9	68.9
≥ 14000		65.3	67.8	68.5	68.8	68.8	68.8	68.9	68.9	68.9	68.9	68.9
≥ 12000		65.3	67.8	68.5	68.8	68.8	68.8	68.9	68.9	68.9	68.9	68.9
≥ 10000		66.0	68.4	69.2	69.6	69.6	69.6	69.7	69.7	69.7	69.7	69.7
≥ 9000		70.3	72.8	73.6	74.0	74.0	74.0	74.1	74.1	74.1	74.1	74.1
≥ 8000		70.3	72.9	73.7	74.1	74.1	74.1	74.2	74.2	74.2	74.2	74.2
≥ 7000		74.5	77.4	78.2	78.6	78.6	78.6	78.7	78.7	78.7	78.7	78.7
≥ 6000		74.9	77.8	78.6	79.0	79.0	79.0	79.1	79.1	79.1	79.1	79.1
≥ 5000		75.7	78.6	79.3	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 4500		76.4	79.5	80.3	80.7	80.7	80.7	80.8	80.8	80.8	80.8	80.8
≥ 4000		77.3	80.3	81.1	81.5	81.5	81.5	81.6	81.6	81.6	81.6	81.6
≥ 3500		80.1	83.3	84.1	84.5	84.5	84.5	84.6	84.6	84.6	84.6	84.6
≥ 3000		82.0	85.3	86.2	86.6	86.6	86.6	86.7	86.7	86.7	86.7	86.7
≥ 2500		84.9	88.4	89.3	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 2000		86.0	89.6	90.5	91.0	91.0	91.0	91.1	91.1	91.2	91.2	91.2
≥ 1800		87.3	91.1	92.1	92.6	92.6	92.6	92.8	92.8	92.9	92.9	93.0
≥ 1600		87.8	91.6	92.6	93.1	93.1	93.1	93.4	93.4	93.5	93.5	93.6
≥ 1500		88.7	92.7	93.8	94.3	94.3	94.3	94.6	94.6	94.7	94.7	94.8
≥ 1200		88.9	93.1	94.3	95.0	95.0	95.0	95.3	95.3	95.5	95.5	95.6
≥ 1000		89.2	93.5	94.8	95.6	95.6	95.6	96.1	96.1	96.3	96.3	96.3
≥ 900		89.4	93.9	95.4	96.2	96.2	96.2	96.8	96.8	96.9	96.9	97.0
≥ 800		89.4	94.0	95.7	96.5	96.5	96.5	97.2	97.2	97.3	97.3	97.4
≥ 700		89.6	94.3	96.3	97.1	97.1	97.1	97.8	97.8	97.9	97.9	98.0
≥ 600		89.7	94.4	96.5	97.3	97.3	97.3	98.0	98.0	98.2	98.2	98.3
≥ 500		89.8	94.6	96.8	97.8	97.8	97.8	98.7	98.7	98.8	98.8	99.0
≥ 400		89.8	94.7	96.9	97.8	97.8	97.8	99.0	99.0	99.3	99.3	99.4
≥ 300		89.8	94.7	96.9	97.8	97.8	97.8	99.2	99.2	99.4	99.4	99.7
≥ 200		89.8	94.8	97.0	97.9	97.9	97.9	99.3	99.3	99.5	99.5	99.8
≥ 100		89.8	94.8	97.0	97.9	97.9	97.9	99.3	99.3	99.5	99.5	99.8
≥ 0		89.8	94.8	97.0	97.9	97.9	97.9	99.3	99.3	99.5	99.5	99.8

TOTAL NUMBER OF OBSERVATIONS

1200

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

MAY  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													≥ 0
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	
NO CEILING														
≥ 20000	51.0	52.9	52.9	52.9	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 18000	60.7	63.9	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 16000	60.7	63.9	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 14000	60.7	63.9	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 12000	61.3	64.5	65.2	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 10000	67.1	70.3	71.0	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 9000	67.1	70.3	71.0	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 8000	72.3	76.1	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 7000	72.3	76.1	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 6000	72.3	76.1	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 5000	72.3	76.1	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 4500	72.9	76.8	78.1	78.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 4000	74.8	78.7	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3500	75.5	79.4	80.7	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 3000	77.4	81.3	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 2500	78.1	82.6	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 2000	79.4	83.9	85.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1800	80.0	84.5	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1500	80.0	84.5	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1200	80.7	85.2	86.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 1000	81.3	85.8	87.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 900	81.9	87.1	88.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 800	82.6	87.7	89.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 700	83.2	88.4	91.0	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 600	83.2	88.4	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 500	83.2	88.4	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 400	83.2	89.0	93.6	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 300	83.2	89.0	93.6	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 200	83.2	89.0	93.6	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 100	83.2	89.0	93.6	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
0	83.2	89.0	93.6	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750 STATION

NORFOLK, VIRGINIA

73-77

YEARS

MAY MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		47.7	51.6	52.9	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 18000		54.8	58.7	60.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 16000		54.8	58.7	60.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 14000		54.8	58.7	60.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 12000		56.8	60.7	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 10000		60.7	64.5	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 9000		60.7	64.5	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 8000		67.7	71.6	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 7000		68.4	72.3	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 6000		68.4	72.3	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 5000		69.0	72.9	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 4500		71.6	75.5	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 4000		72.9	77.4	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 3500		74.8	79.4	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3000		76.1	80.7	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 2500		76.8	81.3	82.6	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 2000		77.4	82.6	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 1800		77.4	82.6	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 1500		77.4	82.6	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 1200		78.1	83.2	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 1000		79.4	85.2	87.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 900		80.7	86.5	89.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 800		80.7	86.5	89.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 700		81.3	87.7	91.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 600		81.3	87.7	91.6	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 500		81.3	87.7	92.9	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 400		81.3	87.7	92.9	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 300		81.3	87.7	93.6	95.5	96.1	96.8	97.4	97.4	97.4	97.4	97.4	97.4
≥ 200		81.3	87.7	93.6	96.1	97.4	98.1	98.7	98.7	98.7	99.4	99.4	99.4
≥ 100		81.3	87.7	93.6	96.1	97.4	98.1	98.7	98.7	98.7	99.4	99.4	99.4
0		81.3	87.7	93.6	96.1	97.4	98.1	98.7	98.7	98.7	99.4	99.4	99.4

155

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750 STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

MAY MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING												
≥ 20000	40.7	46.5	51.6	52.9	52.9	52.9	52.9	53.6	53.6	53.6	53.6	53.6
≥ 18000	45.2	51.6	57.4	59.4	59.4	59.4	59.4	60.0	60.0	60.0	60.0	60.0
≥ 16000	45.2	51.6	57.4	59.4	59.4	59.4	59.4	60.0	60.0	60.0	60.0	60.0
≥ 14000	45.2	51.6	57.4	59.4	59.4	59.4	59.4	60.0	60.0	60.0	60.0	60.0
≥ 12000	45.8	52.3	58.1	60.0	60.0	60.0	60.0	60.7	60.7	60.7	60.7	60.7
≥ 10000	52.9	60.7	67.1	69.0	69.0	69.0	69.0	69.7	69.7	69.7	69.7	69.7
≥ 9000	52.9	60.7	67.1	69.0	69.0	69.0	69.0	69.7	69.7	69.7	69.7	69.7
≥ 8000	53.6	61.3	68.4	71.0	71.0	71.0	71.0	71.6	71.6	71.6	71.6	71.6
≥ 7000	54.2	61.9	69.0	71.6	71.6	71.6	71.6	72.3	72.3	72.3	72.3	72.3
≥ 6000	54.2	61.9	69.0	71.6	71.6	71.6	71.6	72.3	72.3	72.3	72.3	72.3
≥ 5000	55.5	63.2	70.3	72.9	72.9	72.9	72.9	73.6	73.6	73.6	73.6	73.6
≥ 4500	56.8	64.5	71.6	74.2	74.2	74.2	74.2	74.8	74.8	74.8	74.8	74.8
≥ 4000	59.4	67.7	74.8	77.4	77.4	77.4	77.4	78.1	78.1	78.1	78.1	78.1
≥ 3500	59.4	67.7	74.8	77.4	77.4	77.4	77.4	78.1	78.1	78.1	78.1	78.1
≥ 3000	60.7	69.0	76.8	79.4	79.4	79.4	79.4	80.7	80.7	80.7	80.7	80.7
≥ 2500	60.7	69.0	76.8	79.4	79.4	79.4	79.4	80.7	80.7	80.7	80.7	80.7
≥ 2000	61.3	69.7	78.1	81.9	81.9	81.9	81.9	83.9	83.9	83.9	83.9	83.9
≥ 1800	61.3	69.7	79.4	83.2	83.2	83.2	83.2	85.2	85.2	85.2	85.2	85.2
≥ 1500	61.3	69.7	80.0	83.9	83.9	83.9	83.9	85.8	85.8	85.8	85.8	85.8
≥ 1200	61.3	69.7	80.0	83.9	83.9	83.9	83.9	85.8	85.8	85.8	85.8	85.8
≥ 1000	62.6	71.6	81.9	85.8	85.8	85.8	85.8	86.5	86.5	86.5	86.5	86.5
≥ 900	63.2	72.3	82.6	86.5	86.5	86.5	86.5	89.7	89.7	89.7	89.7	89.7
≥ 800	64.5	73.6	83.9	87.7	87.7	87.7	87.7	91.0	91.0	91.0	91.0	91.0
≥ 700	64.5	74.8	85.8	89.7	89.7	89.7	89.7	92.9	92.9	92.9	92.9	92.9
≥ 600	64.5	74.8	85.8	89.7	89.7	89.7	89.7	92.9	92.9	92.9	92.9	92.9
≥ 500	64.5	74.8	87.1	91.0	91.0	91.0	91.0	96.1	96.1	96.1	96.1	96.1
≥ 400	64.5	74.8	87.1	91.0	91.0	91.0	91.0	96.8	96.8	96.8	96.8	96.8
≥ 300	64.5	74.8	87.1	91.0	91.0	91.0	91.0	98.1	98.1	98.1	98.1	98.1
≥ 200	64.5	74.8	87.1	91.0	91.0	91.0	91.0	98.1	98.1	98.1	98.1	98.1
≥ 100	64.5	74.8	87.1	91.0	91.0	91.0	91.0	98.1	98.1	98.1	98.1	98.1
0	64.5	74.8	87.1	91.0	91.0	91.0	91.0	98.1	98.1	98.1	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS

155



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEAR

MAY  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)10  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING											
≥ 20000		49.0	51.0	52.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 18000		56.8	59.4	61.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 16000		56.8	59.4	61.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 14000		56.8	59.4	61.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 12000		56.8	59.4	61.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 10000		58.7	61.3	63.2	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 9000		61.9	65.2	67.1	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 8000		61.9	65.2	67.1	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 7000		67.7	71.6	73.6	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 6000		68.4	72.3	74.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 5000		68.4	72.3	74.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 4500		68.4	72.3	74.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 4000		70.3	74.2	76.8	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 3500		71.0	74.8	77.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 3000		73.6	77.4	80.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 2500		73.6	77.4	80.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 2000		76.1	80.0	83.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1800		76.8	80.7	83.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1600		78.1	81.9	85.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1500		78.7	82.6	86.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1200		78.7	82.6	86.5	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 1000		78.7	82.6	86.5	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 900		78.7	83.2	87.1	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 800		78.7	83.2	87.1	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 700		80.0	85.2	89.0	93.6	94.8	94.8	94.8	94.8	94.8	94.8
≥ 600		80.0	85.2	89.0	94.2	96.8	96.8	96.8	96.8	96.8	96.8
≥ 500		80.0	86.5	90.3	96.1	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400		80.0	86.5	90.3	96.1	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300		80.0	86.5	90.3	96.1	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200		80.0	86.5	90.3	96.1	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100		80.0	86.5	90.3	96.1	99.4	99.4	99.4	99.4	99.4	99.4
0		80.0	86.5	90.3	96.1	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA

73-77

YEARS

MAY  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING		47.1	49.0	49.7	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 20000		52.9	54.8	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 18000		52.9	54.8	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 16000		52.9	54.8	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 14000		52.9	54.8	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 12000		54.2	56.1	57.4	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 10000		58.7	60.0	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 9000		58.7	60.7	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
8000		63.2	65.2	67.1	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
7000		63.2	65.2	67.1	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
6000		64.5	66.5	68.4	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
5000		65.8	67.7	69.7	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
4500		66.5	68.4	70.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
4000		66.5	69.0	71.0	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
3500		67.7	71.0	72.9	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
3000		73.6	77.4	79.4	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
2500		74.2	78.1	80.7	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
2000		79.4	83.2	85.8	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
1800		79.4	83.9	87.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
1500		80.7	85.2	89.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
1200		80.7	85.8	89.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
1000		81.3	86.5	90.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
900		81.3	86.5	90.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
800		81.3	86.5	91.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
700		81.3	87.1	92.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
600		81.3	87.1	92.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
500		81.3	87.7	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
400		81.3	87.7	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
300		81.3	87.7	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
200		81.3	87.7	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
100		81.3	87.7	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
0		81.3	87.7	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

MAY  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)16  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING												
≥ 20000		50.3	51.6	52.3	52.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 18000		60.0	61.9	62.6	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 16000		60.7	62.6	63.2	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 14000		60.7	62.6	63.2	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 12000		60.7	62.6	63.2	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 10000		64.5	66.5	67.1	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 9000		64.5	66.5	67.1	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 8000		69.0	71.6	72.3	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 7000		70.3	73.6	74.2	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 6000		71.0	74.2	74.8	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 5000		72.9	76.1	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 4500		72.9	76.1	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 4000		74.8	78.7	80.0	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3500		76.1	80.0	81.3	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 3000		79.4	83.9	85.8	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 2500		80.7	85.8	87.7	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 2000		83.2	88.4	90.3	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1800		83.2	88.4	91.0	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1500		83.9	89.7	92.3	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1200		83.9	89.7	92.3	92.9	93.6	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1000		85.2	91.0	93.6	94.2	94.8	95.5	95.5	95.5	95.5	95.5	95.5
≥ 900		85.2	91.0	93.6	94.2	94.8	95.5	95.5	95.5	95.5	95.5	95.5
≥ 800		85.8	91.6	94.2	94.8	95.5	96.8	96.8	96.8	96.8	96.8	96.8
≥ 700		85.8	92.3	94.8	95.5	96.1	97.4	97.4	97.4	97.4	97.4	97.4
≥ 600		85.8	92.3	94.8	95.5	96.8	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500		85.8	92.3	94.8	95.5	97.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400		85.8	92.3	94.8	95.5	97.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300		85.8	92.3	94.8	95.5	97.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200		85.8	92.3	94.8	95.5	97.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100		85.8	92.3	94.8	95.5	97.4	99.4	99.4	99.4	99.4	99.4	99.4
0		85.8	92.3	94.8	95.5	97.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750 STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

MAY

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING		47.7	49.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 20000		60.7	63.2	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 18000		61.9	64.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 16000		61.9	64.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 14000		61.9	64.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 12000		62.6	65.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 10000		65.2	68.4	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 9000		65.2	68.4	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 8000		69.7	73.6	75.3	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 7000		69.7	73.6	75.3	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 6000		69.7	73.6	75.3	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 5000		70.3	74.2	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 4500		70.3	74.2	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 4000		72.3	76.1	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 3500		73.6	77.4	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3000		77.4	81.3	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 2500		78.7	82.6	86.3	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 2000		80.0	83.9	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1800		80.7	84.5	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1500		81.3	86.5	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1200		81.9	87.1	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1000		83.2	88.4	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 900		83.2	88.4	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 800		83.2	88.4	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 700		83.2	89.0	92.9	94.8	95.5	96.8	97.4	97.4	98.1	98.7	98.7
≥ 600		83.2	89.0	92.9	94.8	95.5	96.8	97.4	97.4	98.1	98.7	98.7
≥ 500		83.2	89.0	92.9	94.8	95.5	96.8	97.4	97.4	98.1	98.7	98.7
≥ 400		83.2	89.0	92.9	94.8	95.5	96.8	97.4	97.4	98.1	98.7	98.7
≥ 300		83.2	89.0	92.9	94.8	95.5	96.8	97.4	97.4	98.1	98.7	98.7
≥ 200		83.2	89.0	92.9	94.8	95.5	96.8	97.4	97.4	98.1	98.7	98.7
≥ 100		83.2	89.0	92.9	94.8	95.5	96.8	97.4	97.4	98.1	98.7	98.7
≥ 0		83.2	89.0	92.9	94.8	95.5	96.8	97.4	97.4	98.1	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

MAY  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		54.2	58.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 20000		61.9	66.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
AI 18000		62.6	67.1	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
AI 16000		62.6	67.1	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
AI 14000		62.6	67.1	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
AI 12000		63.2	67.7	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
AI 10000		67.7	72.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
AI 9000		67.7	72.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
AI 8000		71.6	76.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
AI 7000		72.3	77.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
AI 6000		72.9	78.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
AI 5000		73.6	78.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
AI 4500		74.2	79.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
AI 4000		76.8	81.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
AI 3500		77.4	82.6	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
AI 3000		79.4	84.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
AI 2500		81.3	86.5	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
AI 2000		81.9	87.1	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
AI 1800		81.9	87.1	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
AI 1500		82.6	88.4	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
AI 1200		83.9	89.7	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
AI 1000		83.9	90.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
AI 900		83.9	90.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
AI 800		83.9	90.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
AI 700		83.9	90.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
AI 600		83.9	90.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
AI 500		83.9	90.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
AI 400		83.9	91.0	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
AI 300		83.9	91.0	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
AI 200		83.9	91.0	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
AI 100		83.9	91.0	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
0		83.9	91.0	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

MAY  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		48.5	51.2	52.7	53.3	53.4	53.4	53.5	53.5	53.5	53.5	53.5	53.5
≥ 18000		56.6	60.0	61.8	62.4	62.5	62.5	62.6	62.6	62.6	62.6	62.6	62.6
≥ 16000		56.9	60.3	62.1	62.7	62.8	62.8	62.9	62.9	62.9	62.9	62.9	62.9
≥ 14000		56.9	60.3	62.1	62.7	62.8	62.8	62.9	62.9	62.9	62.9	62.9	62.9
≥ 12000		57.9	61.3	63.1	63.7	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9
≥ 10000		62.3	66.1	67.9	68.6	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8
≥ 9000		62.3	66.1	68.0	68.7	68.8	68.8	68.9	68.9	68.9	68.9	68.9	68.9
≥ 8000		66.9	71.0	73.1	74.0	74.1	74.1	74.2	74.2	74.2	74.2	74.2	74.2
≥ 7000		67.3	71.5	73.7	74.8	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9
≥ 6000		67.7	71.9	74.1	75.2	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4
≥ 5000		68.5	72.7	75.0	76.3	76.4	76.4	76.5	76.5	76.5	76.5	76.5	76.5
≥ 4500		69.2	73.4	75.7	77.0	77.1	77.1	77.2	77.2	77.2	77.2	77.2	77.2
≥ 4000		71.0	75.5	78.0	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 3500		71.9	76.5	79.1	80.4	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6
≥ 3000		74.7	79.4	82.3	83.6	83.7	83.8	84.0	84.0	84.0	84.0	84.0	84.0
≥ 2500		75.5	80.4	83.3	84.7	84.8	84.8	85.0	85.0	85.0	85.0	85.0	85.0
≥ 2000		77.3	82.3	85.5	87.1	87.2	87.4	87.6	87.6	87.6	87.6	87.6	87.6
≥ 1800		77.6	82.7	86.1	87.7	87.8	88.1	88.2	88.2	88.2	88.2	88.2	88.2
≥ 1500		78.2	83.6	87.2	88.8	88.9	89.1	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1200		78.6	84.1	87.8	89.5	89.7	90.1	90.2	90.2	90.2	90.2	90.2	90.2
≥ 1000		79.4	85.2	89.0	91.0	91.1	91.6	91.8	91.8	91.8	91.8	91.8	91.8
≥ 900		79.8	85.7	89.5	91.5	91.8	92.3	92.4	92.4	92.4	92.4	92.4	92.4
≥ 800		80.1	86.0	90.1	92.3	92.7	93.2	93.4	93.4	93.4	93.4	93.4	93.4
≥ 700		80.4	86.9	91.2	93.6	94.1	94.6	95.0	95.1	95.1	95.1	95.1	95.1
≥ 600		80.4	86.9	91.5	94.1	94.9	95.7	95.9	95.9	96.0	96.0	96.0	96.0
≥ 500		80.4	87.1	92.3	94.9	96.0	96.8	97.2	97.2	97.3	97.3	97.3	97.3
≥ 400		80.4	87.3	92.4	95.2	96.3	97.3	97.8	97.8	98.1	98.2	98.2	98.2
≥ 300		80.4	87.3	92.5	95.2	96.6	97.7	98.6	98.6	98.8	99.0	99.0	99.0
≥ 200		80.4	87.3	92.5	95.3	96.8	97.8	98.7	98.7	99.0	99.2	99.4	99.5
≥ 100		80.4	87.3	92.5	95.3	96.8	97.8	98.7	98.7	99.0	99.3	99.7	99.8
0		80.4	87.3	92.5	95.3	96.8	97.8	98.7	98.7	99.0	99.3	99.7	99.8

TOTAL NUMBER OF OBSERVATIONS

1240



2

15126 54371

2225

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

JUN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING		54.7	60.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 20000		59.3	66.0	66.0	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 18000		59.3	66.0	66.0	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 16000		59.3	66.0	66.0	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 14000		59.3	66.0	66.0	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 12000		60.0	66.7	66.7	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 10000		65.3	72.0	72.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 9000		66.0	72.7	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 8000		74.0	80.7	80.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 7000		75.3	82.0	82.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 6000		76.0	82.7	82.7	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 5000		76.7	83.3	83.3	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 4500		78.7	85.3	85.3	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 4000		79.3	86.0	86.0	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 3500		80.0	86.7	86.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 3000		80.7	87.3	87.3	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 2500		81.3	88.7	88.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 2000		81.3	88.7	88.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1800		83.3	90.7	90.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1500		83.3	90.7	90.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1200		83.3	90.7	90.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1000		84.7	92.0	92.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 900		85.3	92.7	92.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 800		86.7	94.7	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 700		87.3	96.0	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 600		88.7	97.3	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500		89.3	98.0	98.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400		89.3	98.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		89.3	98.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		89.3	98.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		89.3	98.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		89.3	98.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

JUN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING												
≥ 20000		47.3	52.7	54.0	55.3	55.3	56.7	56.7	56.7	56.7	56.7	56.7
≥ 18000		55.3	53.3	64.7	66.7	66.7	68.0	68.0	68.0	68.0	68.0	68.0
≥ 16000		55.3	63.3	64.7	66.7	66.7	68.0	68.0	68.0	68.0	68.0	68.0
≥ 14000		55.3	63.3	64.7	66.7	66.7	68.0	68.0	68.0	68.0	68.0	68.0
≥ 12000		55.3	63.3	64.7	66.7	66.7	68.0	68.0	68.0	68.0	68.0	68.0
≥ 10000		58.0	66.7	68.0	70.0	70.0	71.3	71.3	71.3	71.3	71.3	71.3
≥ 9000		58.0	66.7	68.0	70.0	70.0	71.3	71.3	71.3	71.3	71.3	71.3
≥ 8000		67.3	76.7	78.0	80.0	80.0	81.3	81.3	81.3	81.3	81.3	81.3
≥ 7000		68.7	78.0	79.3	81.3	81.3	82.7	82.7	82.7	82.7	82.7	82.7
≥ 6000		68.7	78.0	79.3	81.3	81.3	82.7	82.7	82.7	82.7	82.7	82.7
≥ 5000		69.3	78.7	80.7	82.7	82.7	84.0	84.0	84.0	84.0	84.0	84.0
≥ 4500		70.0	79.3	81.3	83.3	83.3	84.7	84.7	84.7	84.7	84.7	84.7
≥ 4000		70.7	80.0	82.0	84.0	84.0	85.3	85.3	85.3	85.3	85.3	85.3
≥ 3500		71.3	80.7	82.7	84.0	84.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 3000		72.7	82.0	84.0	86.0	86.0	87.3	87.3	87.3	87.3	87.3	87.3
≥ 2500		74.0	83.3	85.3	87.3	87.3	88.7	88.7	88.7	88.7	88.7	88.7
≥ 2000		74.0	83.3	85.3	88.0	88.0	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1800		75.3	84.7	86.7	89.3	89.3	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1500		77.3	86.7	88.7	91.3	91.3	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1200		78.0	87.3	89.3	92.0	92.0	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1000		80.0	89.3	91.3	94.0	94.0	95.3	95.3	95.3	95.3	95.3	95.3
≥ 900		80.0	89.3	91.3	94.0	94.0	95.3	95.3	95.3	95.3	95.3	95.3
≥ 800		80.0	89.3	91.3	94.0	94.0	95.3	95.3	95.3	95.3	95.3	95.3
≥ 700		81.3	90.7	92.7	95.3	95.3	96.7	96.7	96.7	96.7	96.7	96.7
≥ 600		82.7	92.0	94.0	96.7	96.7	98.0	98.0	98.0	98.0	98.0	98.0
≥ 500		82.7	92.0	94.0	97.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400		83.3	92.7	94.7	98.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		83.3	92.7	94.7	98.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		83.3	92.7	94.7	98.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		83.3	92.7	94.7	98.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0
0		83.3	92.7	94.7	98.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

150

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13750  
STATIONNORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

JUN  
MONTH

07

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000	30.0	38.7	46.0	48.7	49.3	49.3	49.3	50.0	50.0	50.0	50.0	50.0	50.0
≥ 18000	36.7	47.3	57.3	60.0	60.7	60.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3
≥ 16000	36.7	47.3	57.3	60.0	60.7	60.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3
≥ 14000	36.7	47.3	57.3	60.0	60.7	60.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3
≥ 12000	38.0	48.7	58.7	61.3	62.0	62.0	62.0	62.7	62.7	62.7	62.7	62.7	62.7
≥ 10000	41.3	52.0	62.0	64.7	65.3	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.0
≥ 9000	41.3	52.0	62.0	64.7	65.3	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.0
≥ 8000	47.3	58.7	68.7	71.3	72.0	72.0	72.0	73.3	73.3	73.3	73.3	73.3	73.3
≥ 7000	48.0	59.3	69.3	72.0	72.7	73.3	73.3	74.0	74.0	74.0	74.0	74.0	74.0
≥ 6000	48.0	59.3	69.3	72.0	72.7	73.3	73.3	74.0	74.0	74.0	74.0	74.0	74.0
≥ 5000	49.3	60.7	70.7	73.3	74.0	74.0	74.0	75.3	75.3	75.3	75.3	75.3	75.3
≥ 4500	49.3	61.3	71.3	74.0	74.7	75.3	75.3	76.0	76.0	76.0	76.0	76.0	76.0
≥ 4000	51.3	63.3	74.0	76.7	78.0	78.0	78.0	79.3	79.3	79.3	79.3	79.3	79.3
≥ 3500	52.0	64.0	74.7	77.3	78.7	78.7	78.7	80.0	80.0	80.0	80.0	80.0	80.0
≥ 3000	54.0	66.0	77.3	80.0	81.3	82.0	82.0	82.7	82.7	82.7	82.7	82.7	82.7
≥ 2500	54.7	66.7	78.0	80.7	82.0	82.0	82.0	83.3	83.3	83.3	83.3	83.3	83.3
≥ 2000	56.0	68.0	79.3	82.0	83.3	84.0	84.0	84.7	84.7	84.7	84.7	84.7	84.7
≥ 1800	57.3	69.3	80.7	83.3	84.7	85.3	85.3	86.0	86.0	86.0	86.0	86.0	86.0
≥ 1500	57.3	70.0	81.3	84.0	85.3	86.0	86.0	86.7	86.7	86.7	86.7	86.7	86.7
≥ 1200	58.7	71.3	82.7	85.3	86.7	87.3	87.3	88.0	88.0	88.0	88.0	88.0	88.0
≥ 1000	60.0	72.7	84.0	87.3	88.7	89.3	89.3	90.0	90.0	90.0	90.0	90.0	90.0
≥ 900	62.0	74.7	86.0	90.0	91.3	92.0	92.0	92.7	92.7	92.7	92.7	92.7	92.7
≥ 800	62.0	75.3	86.7	90.7	92.0	93.3	93.3	94.0	94.0	94.0	94.0	94.0	94.0
≥ 700	63.3	76.7	88.0	92.0	93.3	94.0	94.0	95.3	95.3	95.3	95.3	95.3	95.3
≥ 600	63.3	76.7	88.0	92.7	94.7	96.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7
≥ 500	63.3	76.7	88.0	92.7	94.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3
≥ 400	63.3	76.7	88.0	92.7	94.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3
≥ 300	63.3	76.7	88.0	92.7	94.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3
≥ 200	63.3	76.7	88.0	92.7	94.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3
≥ 100	63.3	76.7	88.0	92.7	94.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3
0	63.3	76.7	88.0	92.7	94.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

JUN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		41.3	49.3	52.0	54.0	54.0	54.7	54.7	54.7	54.7	54.7	54.7	54.7
18000		50.0	58.7	61.3	63.3	63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0
16000		50.0	58.7	61.3	63.3	63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0
14000		50.0	58.7	61.3	63.3	63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0
12000		50.0	58.7	62.0	64.7	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3
10000		53.3	62.0	66.0	68.7	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3
9000		53.3	62.0	66.0	68.7	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3
8000		60.7	69.3	73.3	76.0	76.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7
7000		61.3	70.0	74.0	76.7	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3
6000		61.3	70.0	74.0	76.7	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3
5000		61.3	70.0	74.7	77.3	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0
4500		61.3	70.0	74.7	77.3	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0
4000		64.7	73.3	78.0	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3
3500		65.3	74.0	78.7	81.3	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0
3000		68.0	76.7	81.3	84.0	84.0	84.7	84.7	84.7	84.7	84.7	84.7	84.7
2500		69.3	78.7	83.3	86.0	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7
2000		71.3	80.7	85.3	88.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7
1800		71.3	80.7	85.3	88.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7
1500		74.7	84.0	88.7	91.3	91.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7
1200		77.3	86.7	91.3	94.0	94.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3
1000		77.3	86.7	91.3	94.0	94.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3
900		77.3	86.7	91.3	94.0	94.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3
800		78.7	88.0	92.7	96.0	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3
700		78.7	88.0	92.7	96.0	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3
600		78.7	88.0	92.7	96.0	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3
500		79.3	88.7	93.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0
400		79.3	88.7	93.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0
300		79.3	88.7	93.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0
200		79.3	88.7	93.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0
100		79.3	88.7	93.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0
0		79.3	88.7	93.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS

150



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

JUN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING		40.0	45.3	46.7	47.3	48.0	48.0	48.0	48.0	48.0	48.0
≥ 20000		50.0	56.0	58.0	58.7	59.3	59.3	59.3	59.3	59.3	59.3
18000		50.0	56.0	58.0	58.7	59.3	59.3	59.3	59.3	59.3	59.3
16000		50.0	56.0	58.0	58.7	59.3	59.3	59.3	59.3	59.3	59.3
14000		50.0	56.0	58.0	58.7	59.3	59.3	59.3	59.3	59.3	59.3
12000		52.0	58.0	60.0	60.7	61.3	61.3	61.3	61.3	61.3	61.3
10000		55.3	61.3	63.3	64.0	64.7	64.7	64.7	64.7	64.7	64.7
9000		56.0	62.0	64.0	64.7	65.3	65.3	65.3	65.3	65.3	65.3
8000		65.3	72.0	74.0	74.7	75.3	75.3	75.3	75.3	75.3	75.3
7000		65.3	72.7	74.7	76.0	76.7	76.7	76.7	76.7	76.7	76.7
6000		65.3	72.7	74.7	76.0	76.7	76.7	76.7	76.7	76.7	76.7
5000		65.3	72.7	74.7	76.0	76.7	76.7	76.7	76.7	76.7	76.7
4500		66.0	73.3	75.3	76.7	77.3	77.3	77.3	77.3	77.3	77.3
4000		68.0	75.3	77.3	78.7	79.3	79.3	79.3	79.3	79.3	79.3
3500		68.7	76.0	78.0	79.3	80.0	80.0	80.0	80.0	80.0	80.0
3000		70.7	78.0	80.0	82.0	82.7	82.7	82.7	82.7	82.7	82.7
2500		77.3	84.7	87.3	89.3	90.0	90.0	90.0	90.0	90.0	90.0
2000		79.3	86.7	90.0	92.0	92.7	92.7	92.7	92.7	92.7	92.7
1800		79.3	86.7	90.0	92.0	92.7	92.7	92.7	92.7	92.7	92.7
1500		80.0	87.3	90.7	92.7	93.3	93.3	93.3	93.3	93.3	93.3
1200		80.7	88.0	92.0	94.0	94.7	94.7	94.7	94.7	94.7	94.7
1000		81.3	89.3	93.3	95.3	96.0	96.0	96.0	96.0	96.0	96.0
900		81.3	89.3	94.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7
800		81.3	89.3	94.0	96.7	97.3	97.3	97.3	97.3	97.3	97.3
700		81.3	89.3	94.0	96.7	97.3	97.3	97.3	97.3	97.3	97.3
600		81.3	89.3	94.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0
500		81.3	89.3	94.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0
400		81.3	89.3	94.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0
300		81.3	89.3	94.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0
200		81.3	89.3	94.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0
100		81.3	89.3	94.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0
0		81.3	89.3	94.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS 150

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

JUN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000	44.0	48.7	50.0	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 18000	54.0	60.7	62.7	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 16000	54.0	60.7	62.7	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 14000	54.0	60.7	62.7	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 12000	54.0	60.7	62.7	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 10000	55.3	62.0	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 9000	55.3	62.0	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 8000	60.7	67.3	69.3	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 7000	62.0	68.7	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 6000	62.7	69.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 5000	64.0	70.7	72.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 4500	64.7	71.3	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 4000	66.7	74.0	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 3500	66.7	74.0	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 3000	70.7	78.0	81.3	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 2500	74.0	81.3	84.7	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 2000	76.7	84.0	87.3	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1800	78.0	85.3	88.7	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1500	80.0	87.3	92.0	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1200	80.7	88.0	92.7	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1000	81.3	89.3	94.0	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 900	81.3	89.3	94.0	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 800	82.0	90.0	95.3	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700	82.0	90.0	96.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600	82.0	90.0	96.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500	82.0	90.0	96.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400	82.0	90.0	96.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	82.0	90.0	96.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200	82.0	90.0	96.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 100	82.0	90.0	96.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 0	82.0	90.0	96.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

JUN  
MONTH

19  
HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000	46.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 18000	58.7	63.3	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 16000	58.7	63.3	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 14000	58.7	63.3	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 12000	59.3	64.0	65.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 10000	64.7	70.0	71.3	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 9000	64.7	70.7	72.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 8000	67.3	74.7	76.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 7000	68.0	75.3	76.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 6000	68.7	76.0	77.3	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 5000	70.0	77.3	78.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 4500	70.7	78.0	79.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 4000	73.3	81.3	82.7	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 3500	73.3	81.3	82.7	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 3000	74.7	84.0	85.3	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 2500	76.0	85.3	86.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 2000	78.0	87.3	88.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1800	78.0	87.3	88.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1500	78.0	87.3	88.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1200	78.7	88.7	90.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1000	79.3	89.3	90.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 900	79.3	89.3	90.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 800	80.7	90.7	92.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 700	80.7	90.7	92.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 600	80.7	91.3	93.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 500	80.7	91.3	94.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 400	80.7	91.3	94.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 300	80.7	91.3	94.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 200	80.7	91.3	94.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 100	80.7	91.3	94.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
0	80.7	91.3	94.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

JUN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING		49.3	52.7	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 20000		60.7	65.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 18000		60.7	65.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 16000		60.7	65.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 14000		62.0	66.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 12000		62.7	68.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 10000		69.3	74.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 9000		69.3	74.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 8000		75.3	80.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 7000		76.0	81.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 6000		77.3	82.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 5000		78.7	84.0	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 4500		79.3	84.7	86.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 4000		80.0	85.3	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 3500		80.7	86.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 3000		82.7	88.0	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 2500		82.7	88.0	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 2000		83.3	88.7	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1800		84.0	89.3	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1500		85.3	90.7	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1200		86.7	92.0	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1000		87.3	92.7	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 900		87.3	93.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 800		88.0	94.0	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 700		88.7	94.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 600		89.3	96.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500		89.3	96.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400		89.3	96.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300		89.3	96.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200		89.3	96.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 100		89.3	96.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0		89.3	96.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 150

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

JUN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING											
≥ 20000	44.1	49.8	51.6	52.6	52.6	52.6	53.0	53.1	53.1	53.1	53.1
≥ 18000	53.1	60.1	62.8	64.0	64.0	64.2	64.4	64.5	64.5	64.5	64.5
≥ 16000	53.1	60.1	62.8	64.0	64.0	64.2	64.4	64.5	64.5	64.5	64.5
≥ 14000	53.1	60.1	62.8	64.0	64.0	64.2	64.4	64.5	64.5	64.5	64.5
≥ 12000	53.9	61.0	63.8	65.2	65.3	65.3	65.6	65.7	65.7	65.7	65.7
≥ 10000	57.8	65.1	67.9	69.3	69.5	69.5	69.8	69.8	69.8	69.8	69.8
≥ 9000	58.0	65.3	68.2	69.6	69.8	69.8	70.0	70.1	70.1	70.1	70.1
≥ 8000	64.8	72.5	75.3	76.8	76.9	76.9	77.3	77.3	77.3	77.3	77.3
≥ 7000	65.6	73.4	76.3	77.8	77.9	77.9	78.3	78.3	78.3	78.3	78.3
≥ 6000	66.0	73.8	76.7	78.2	78.3	78.3	78.7	78.8	78.8	78.8	78.8
≥ 5000	66.8	74.7	77.7	79.3	79.4	79.4	79.8	79.8	79.8	79.8	79.8
≥ 4500	67.5	75.4	78.4	80.0	80.2	80.2	80.6	80.6	80.6	80.6	80.6
≥ 4000	69.3	77.3	80.5	82.1	82.2	82.2	82.7	82.8	82.8	82.8	82.8
≥ 3500	69.8	77.8	81.0	82.6	82.8	82.8	83.2	83.3	83.3	83.3	83.3
≥ 3000	71.8	80.0	83.3	85.0	85.3	85.3	85.7	85.8	85.8	85.8	85.8
≥ 2500	73.6	81.9	85.3	87.0	87.3	87.3	87.7	87.8	87.8	87.8	87.8
≥ 2000	75.0	83.4	86.9	88.7	89.0	89.0	89.3	89.4	89.4	89.4	89.4
≥ 1800	75.6	84.0	87.5	89.3	89.6	89.6	89.9	90.0	90.0	90.0	90.0
≥ 1500	77.0	85.5	89.2	91.0	91.3	91.3	91.8	91.8	91.8	91.8	91.8
≥ 1200	78.0	86.6	90.3	92.2	92.5	92.5	92.9	93.0	93.0	93.0	93.0
≥ 1000	78.9	87.7	91.5	93.4	93.8	93.8	94.3	94.5	94.5	94.5	94.5
≥ 900	79.3	88.1	92.0	94.0	94.3	94.3	94.9	95.1	95.1	95.1	95.1
≥ 800	79.9	88.9	92.9	95.3	95.7	95.7	96.4	96.6	96.6	96.6	96.6
≥ 700	80.4	89.5	93.7	96.0	96.5	96.5	97.3	97.5	97.5	97.5	97.5
≥ 600	80.8	90.1	94.3	96.8	97.3	97.3	98.2	98.3	98.3	98.3	98.3
≥ 500	81.0	90.3	94.5	97.2	97.7	97.7	98.9	99.1	99.2	99.3	99.3
≥ 400	81.1	90.3	94.6	97.4	97.9	97.9	99.2	99.3	99.4	99.5	99.5
≥ 300	81.1	90.3	94.6	97.4	97.9	97.9	99.2	99.3	99.4	99.5	99.5
≥ 200	81.1	90.3	94.6	97.4	97.9	97.9	99.2	99.3	99.4	99.5	99.5
≥ 100	81.1	90.3	94.6	97.4	97.9	97.9	99.2	99.3	99.4	99.5	99.5
≥ 0	81.1	90.3	94.6	97.4	97.9	97.9	99.2	99.3	99.4	99.5	99.5

1200

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

JUL  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING												
≥ 20000		54.8	60.7	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
18000		60.7	66.5	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
16000		60.7	66.5	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
14000		60.7	66.5	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
12000		60.7	66.5	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
10000		63.2	70.3	73.6	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2
9000		63.9	71.0	74.2	74.2	74.2	74.8	74.8	74.8	74.8	74.8	74.8
8000		71.0	79.4	83.2	83.9	83.9	84.5	84.5	84.5	84.5	84.5	84.5
7000		71.6	80.0	83.9	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2
6000		71.6	80.0	83.9	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2
5000		72.3	80.7	84.5	85.2	85.2	85.8	85.8	85.8	85.8	85.8	85.8
4500		72.3	80.7	84.5	85.2	85.2	85.8	85.8	85.8	85.8	85.8	85.8
4000		72.9	81.3	85.2	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5
3500		74.2	82.6	86.5	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7
3000		78.1	87.1	91.6	92.3	92.3	92.9	92.9	92.9	92.9	92.9	92.9
2500		78.1	87.7	92.3	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6
2000		79.4	89.0	93.6	94.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8
1800		79.4	89.0	93.6	94.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8
1500		80.0	89.7	94.2	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5
1200		80.0	89.7	94.2	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5
1000		80.7	90.3	94.8	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1
900		80.7	90.3	94.8	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1
800		81.9	92.3	96.8	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7
700		81.9	92.3	96.8	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7
600		81.9	92.9	97.4	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4
500		81.9	92.9	97.4	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4
400		81.9	92.9	97.4	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4
300		81.9	92.9	97.4	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4
200		81.9	92.9	97.4	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4
100		81.9	92.9	97.4	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4
0		81.9	92.9	97.4	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

JUL  
MONTH

04  
HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														
≥ 20000		49.0	58.7	62.6	63.2	63.2	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 18000		57.4	67.7	72.3	73.6	73.6	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 16000		57.4	67.7	72.3	73.6	73.6	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 14000		57.4	67.7	72.3	73.6	73.6	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 12000		57.4	67.7	72.3	73.6	73.6	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 10000		60.7	71.0	76.1	78.1	78.1	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 9000		61.3	71.6	76.6	78.7	78.7	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 8000		65.5	77.4	83.9	85.8	85.8	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 7000		67.7	78.7	85.2	87.1	87.1	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 6000		67.7	78.7	85.2	87.1	87.1	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 5000		67.7	78.7	85.2	87.1	87.1	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 4500		67.7	78.7	85.2	87.1	87.1	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 4000		69.0	80.0	86.5	88.4	88.4	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 3500		69.7	80.7	87.1	89.0	89.0	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 3000		72.3	84.5	91.0	92.9	92.9	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 2500		74.2	86.5	92.9	94.8	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 2000		74.2	86.5	92.9	94.8	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1800		74.2	86.5	92.9	94.8	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1500		75.5	87.7	94.2	96.1	96.1	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1200		75.5	87.7	94.2	96.1	96.1	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1000		75.5	87.7	94.2	96.1	96.1	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 900		76.1	88.4	94.8	96.8	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 800		76.1	89.0	96.1	98.1	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700		76.1	89.0	96.1	98.1	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600		76.1	89.0	96.1	98.1	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500		76.1	89.0	96.1	98.1	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400		76.1	89.0	96.1	98.1	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300		76.1	89.0	96.1	98.1	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200		76.1	89.0	96.1	98.1	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100		76.1	89.0	96.1	98.1	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0		76.1	89.0	96.1	98.1	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

07  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		33.6	40.7	47.1	52.9	53.6	54.8	55.5	55.5	56.8	56.8	56.8	56.8
≥ 20000		35.5	43.9	53.6	61.9	63.2	64.5	65.8	65.8	67.1	67.1	67.1	67.1
≥ 18000		35.5	43.9	53.6	61.9	63.2	64.5	65.8	65.8	67.1	67.1	67.1	67.1
≥ 16000		35.5	43.9	53.6	61.9	63.2	64.5	65.8	65.8	67.1	67.1	67.1	67.1
≥ 14000		35.5	43.9	53.6	61.9	63.2	64.5	65.8	65.8	67.1	67.1	67.1	67.1
≥ 12000		36.1	44.5	54.2	62.6	63.9	65.2	66.5	66.5	67.7	67.7	67.7	67.7
≥ 10000		39.4	48.4	59.4	68.4	70.3	71.6	72.9	72.9	74.2	74.2	74.2	74.2
≥ 9000		40.0	49.7	60.7	69.7	71.6	72.9	74.2	74.2	75.5	75.5	75.5	75.5
≥ 8000		45.2	55.5	67.7	77.4	79.4	80.7	81.9	81.9	83.2	83.2	83.2	83.2
≥ 7000		45.2	56.1	68.4	78.1	80.0	81.3	82.6	82.6	83.9	83.9	83.9	83.9
≥ 6000		45.2	56.1	68.4	78.1	80.0	81.3	82.6	82.6	83.9	83.9	83.9	83.9
≥ 5000		45.2	56.1	68.4	78.1	80.0	81.3	82.6	82.6	83.9	83.9	83.9	83.9
≥ 4500		45.8	56.8	69.7	79.4	81.3	82.6	83.9	83.9	85.2	85.2	85.2	85.2
≥ 4000		45.8	56.8	69.7	79.4	81.3	82.6	83.9	83.9	85.2	85.2	85.2	85.2
≥ 3500		49.0	60.0	72.9	83.9	85.8	87.1	88.4	88.4	89.7	89.7	89.7	89.7
≥ 3000		49.0	60.0	72.9	83.9	85.8	87.1	88.4	88.4	89.7	89.7	89.7	89.7
≥ 2500		49.0	60.0	73.6	84.5	86.5	87.7	89.0	89.0	90.3	90.3	90.3	90.3
≥ 2000		49.0	60.0	73.6	84.5	86.5	87.7	89.0	89.0	90.3	90.3	90.3	90.3
≥ 1800		51.0	61.9	76.1	87.1	89.0	90.3	91.6	91.6	92.9	92.9	92.9	92.9
≥ 1500		51.0	61.9	76.1	87.1	89.0	90.3	91.6	91.6	92.9	92.9	92.9	92.9
≥ 1200		51.6	63.2	77.4	88.4	90.3	91.6	92.9	92.9	94.2	94.2	94.2	94.2
≥ 1000		51.6	63.2	77.4	88.4	90.3	91.6	92.9	92.9	94.2	94.2	94.2	94.2
≥ 900		52.9	64.5	79.4	91.6	93.6	94.8	96.1	96.1	97.4	97.4	97.4	97.4
≥ 800		52.9	64.5	79.4	91.6	93.6	94.8	96.1	96.1	97.4	97.4	97.4	97.4
≥ 700		53.6	65.2	80.7	92.9	94.2	95.5	96.8	96.8	98.1	98.1	98.1	98.1
≥ 600		53.6	65.2	80.7	92.9	94.2	95.5	96.8	96.8	98.1	98.1	98.1	98.1
≥ 500		53.6	65.2	80.7	92.9	94.8	96.1	97.4	97.4	98.7	98.7	98.7	98.7
≥ 400		53.6	65.2	80.7	92.9	94.8	96.1	97.4	97.4	98.7	98.7	98.7	98.7
≥ 300		53.6	65.2	80.7	92.9	94.8	96.1	97.4	97.4	98.7	98.7	98.7	98.7
≥ 200		53.6	65.2	80.7	92.9	94.8	96.1	97.4	97.4	98.7	98.7	98.7	98.7
≥ 100		53.6	65.2	80.7	92.9	94.8	96.1	97.4	97.4	98.7	98.7	98.7	98.7
0		53.6	65.2	80.7	92.9	94.8	96.1	97.4	97.4	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

153

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13750  
STATIONNORFOLK, VIRGINIA  
STATION NAME

73-77

STATION NAME

YEARS

JUL  
MONTH

10

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16	≥ ¼
NO CEILING													≥ 0
≥ 20000		41.3	46.5	53.6	58.7	59.4	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 18000		47.1	53.6	61.3	68.4	69.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 16000		47.1	53.6	61.3	68.4	69.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 14000		47.1	53.6	61.3	68.4	69.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 12000		47.1	53.6	61.3	69.0	69.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 10000		50.3	56.8	65.2	72.9	73.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 9000		50.3	56.8	65.8	73.6	74.2	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 8000		56.1	63.9	73.6	81.9	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 7000		56.1	63.9	73.6	81.9	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 6000		56.1	63.9	73.6	81.9	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 5000		56.1	64.5	74.8	83.2	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 4500		56.1	64.5	74.8	83.2	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 4000		56.8	65.2	76.1	84.5	85.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 3500		56.8	65.2	76.1	84.5	85.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 3000		60.7	69.0	80.7	89.0	89.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2500		61.3	69.7	81.3	89.7	90.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 2000		61.3	69.7	81.3	89.7	90.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1800		61.9	70.3	81.9	90.3	91.0	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1500		62.6	71.0	83.2	91.6	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1200		62.6	71.0	85.2	93.6	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1000		63.9	72.3	87.1	95.5	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 900		63.9	72.3	87.1	95.5	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 800		63.9	72.3	87.1	96.1	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700		63.9	72.3	87.1	96.1	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600		63.9	72.3	87.1	96.1	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500		63.9	72.3	87.1	96.1	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400		63.9	72.3	87.1	96.1	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300		63.9	72.3	87.1	96.1	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200		63.9	72.3	87.1	96.1	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100		63.9	72.3	87.1	96.1	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0		63.9	72.3	87.1	96.1	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155

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# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

JUL  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING		41.3	44.5	54.8	57.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 20000		49.7	56.1	66.5	69.7	70.3	71.0	71.0	71.0	71.0	71.0	71.0
≥ 18000		49.7	56.1	66.5	69.7	70.3	71.0	71.0	71.0	71.0	71.0	71.0
≥ 16000		49.7	56.1	66.5	69.7	70.3	71.0	71.0	71.0	71.0	71.0	71.0
≥ 14000		49.7	56.1	67.1	70.3	71.0	71.6	71.6	71.6	71.6	71.6	71.6
≥ 12000		49.7	56.8	67.7	71.6	72.3	72.9	72.9	72.9	72.9	72.9	72.9
≥ 10000		51.6	58.7	70.3	74.8	75.5	76.1	76.1	76.1	76.1	76.1	76.1
≥ 9000		51.6	58.7	70.3	75.5	76.1	76.8	76.8	76.8	76.8	76.8	76.8
≥ 8000		56.8	63.9	76.1	81.3	81.9	82.6	82.6	82.6	82.6	82.6	82.6
≥ 7000		57.4	64.5	77.4	82.6	83.2	83.9	83.9	83.9	83.9	83.9	83.9
≥ 6000		57.4	65.2	78.1	83.2	83.9	84.5	84.5	84.5	84.5	84.5	84.5
≥ 5000		58.7	66.5	79.4	84.5	85.2	85.8	85.8	85.8	85.8	85.8	85.8
≥ 4500		58.7	67.1	80.0	85.2	85.8	86.5	86.5	86.5	86.5	86.5	86.5
≥ 4000		60.0	68.4	81.3	86.5	87.1	87.7	87.7	87.7	87.7	87.7	87.7
≥ 3500		60.7	69.0	81.9	87.1	87.7	88.4	88.4	88.4	88.4	88.4	88.4
≥ 3000		64.5	73.6	86.5	91.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2
≥ 2500		64.5	74.2	87.1	92.3	94.2	94.8	94.8	94.8	94.8	94.8	94.8
≥ 2000		65.2	74.8	88.4	93.6	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1800		65.2	74.8	88.4	93.6	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1500		65.8	75.5	90.3	95.5	97.4	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1200		66.5	76.1	91.6	96.8	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000		66.5	76.1	91.6	96.8	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900		66.5	76.1	91.6	96.8	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800		66.5	76.1	91.6	96.8	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700		66.5	76.1	91.6	96.8	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600		66.5	76.1	91.6	96.8	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500		66.5	76.1	91.6	96.8	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400		66.5	76.1	91.6	96.8	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300		66.5	76.1	91.6	96.8	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200		66.5	76.1	91.6	96.8	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100		66.5	76.1	91.6	96.8	98.7	99.4	99.4	99.4	99.4	99.4	99.4
0		66.5	76.1	91.6	96.8	98.7	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA

73-77

YEARS

JUL  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														≥ 0
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	
NO CEILING		47.7	53.6	61.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 20000		52.9	59.4	68.4	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 18000		52.9	59.4	68.4	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 16000		52.9	59.4	68.4	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 14000		52.9	59.4	68.4	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 12000		53.6	60.0	69.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 10000		55.5	61.9	72.3	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 9000		55.5	61.9	73.6	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 8000		57.4	64.5	76.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 7000		58.1	65.8	77.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 6000		58.1	65.8	77.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 5000		58.7	66.5	78.1	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 4500		58.7	66.5	78.1	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 4000		60.0	67.7	80.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 3500		60.0	67.7	80.7	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 3000		62.6	70.3	83.2	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 2500		63.9	71.6	85.8	91.0	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 2000		65.2	72.9	87.1	92.3	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1800		65.2	72.9	87.1	92.3	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1500		67.7	76.8	91.0	96.1	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1200		67.7	76.8	91.0	96.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000		67.7	76.8	91.0	96.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		67.7	76.8	91.0	96.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		67.7	76.8	91.0	96.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700		67.7	76.8	91.0	96.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600		67.7	76.8	91.0	96.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500		67.7	76.8	91.0	96.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400		67.7	76.8	91.0	96.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300		67.7	76.8	91.0	96.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200		67.7	76.8	91.0	96.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100		67.7	76.8	91.0	96.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0		67.7	76.8	91.0	96.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750 STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

JUL MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19 HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING											
≥ 20000		43.9	51.0	56.8	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 18000		46.5	54.8	62.6	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 16000		46.5	54.8	62.6	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 14000		47.1	55.5	63.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 12000		47.7	56.1	63.9	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 10000		51.6	60.7	69.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 9000		51.6	60.7	69.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6
8000		58.1	69.0	79.4	82.6	82.6	82.6	82.6	82.6	82.6	82.6
7000		60.0	71.0	81.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5
6000		60.0	71.0	81.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5
5000		61.3	72.3	82.6	85.8	86.5	86.5	86.5	86.5	86.5	86.5
4500		61.3	72.3	82.6	85.8	86.5	86.5	86.5	86.5	86.5	86.5
4000		62.6	73.6	83.9	87.1	87.7	87.7	87.7	87.7	87.7	87.7
3500		62.6	74.2	84.5	87.7	88.4	88.4	88.4	88.4	88.4	88.4
3000		66.5	78.7	89.0	92.3	92.9	93.6	93.6	93.6	93.6	93.6
2500		66.5	78.7	89.0	92.3	92.9	93.6	93.6	93.6	93.6	93.6
2000		67.1	80.0	90.3	94.2	94.8	95.5	95.5	95.5	95.5	95.5
1800		67.1	80.0	90.3	94.2	94.8	95.5	95.5	95.5	95.5	95.5
1500		67.7	80.7	91.0	94.8	96.1	96.8	96.8	96.8	96.8	96.8
1200		67.7	80.7	91.0	94.8	96.1	96.8	96.8	96.8	96.8	96.8
1000		67.7	80.7	91.0	94.8	96.1	96.8	96.8	96.8	96.8	96.8
900		67.7	80.7	91.0	94.8	96.1	96.8	96.8	96.8	96.8	96.8
800		67.7	81.3	93.6	97.4	99.4	99.4	99.4	99.4	99.4	99.4
700		67.7	81.3	93.6	97.4	99.4	99.4	99.4	99.4	99.4	99.4
600		67.7	81.3	93.6	97.4	99.4	99.4	99.4	99.4	99.4	99.4
500		67.7	81.3	93.6	97.4	99.4	99.4	99.4	99.4	99.4	99.4
400		67.7	81.3	93.6	97.4	99.4	99.4	99.4	99.4	99.4	99.4
300		67.7	81.3	93.6	97.4	99.4	99.4	99.4	99.4	99.4	99.4
200		67.7	81.3	93.6	97.4	99.4	99.4	99.4	99.4	99.4	99.4
100		67.7	81.3	93.6	97.4	99.4	99.4	99.4	99.4	99.4	99.4
0		67.7	81.3	93.6	97.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 155



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13750

NORFOLK, VIRGINIA

73-77

JUL

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

22

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		52.9	56.8	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 20000		60.0	66.5	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
18000		60.0	66.5	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
16000		60.0	66.5	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
14000		60.0	66.5	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
12000		60.7	67.7	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
10000		65.2	72.9	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
9000		65.2	72.9	78.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
8000		69.7	77.4	83.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
7000		71.0	79.4	85.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
6000		71.6	80.0	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
5000		71.6	80.0	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
4500		71.6	80.0	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
4000		72.9	81.3	87.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
3500		72.9	81.3	87.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
3000		76.1	84.5	91.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
2500		76.8	85.2	91.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
2000		76.1	86.5	92.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
1800		78.7	87.7	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
1500		78.7	89.0	95.5	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
1200		78.7	89.0	96.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1000		78.7	89.0	96.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
900		78.7	89.0	96.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
800		78.7	89.0	96.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
700		78.7	89.0	96.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
600		78.7	89.0	96.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
500		78.7	89.0	96.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
400		78.7	89.0	96.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
300		78.7	89.0	96.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
200		78.7	89.0	96.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
100		78.7	89.0	96.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0		78.7	89.0	96.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

JUL  
MONTH

ALL  
HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING		45.6	51.5	57.5	59.9	60.2	60.6	60.7	60.7	60.9	60.9	60.9	60.9
≥ 20000		51.2	58.6	65.7	69.0	69.3	69.8	70.0	70.0	70.2	70.2	70.2	70.2
≥ 18000		51.2	58.6	65.7	69.0	69.3	69.8	70.0	70.0	70.2	70.2	70.2	70.2
≥ 16000		51.2	58.6	65.7	69.0	69.3	69.8	70.0	70.0	70.2	70.2	70.2	70.2
≥ 14000		51.3	58.6	65.9	69.1	69.4	69.9	70.2	70.2	70.3	70.3	70.3	70.3
≥ 12000		51.6	59.1	66.5	69.8	70.2	70.7	70.9	70.9	71.1	71.1	71.1	71.1
≥ 10000		54.7	62.6	70.6	74.2	74.6	75.2	75.4	75.4	75.6	75.6	75.6	75.6
≥ 9000		54.9	62.9	71.1	74.9	75.3	75.9	76.1	76.1	76.3	76.3	76.3	76.3
≥ 8000		60.1	68.9	77.9	82.1	82.5	83.1	83.3	83.3	83.5	83.5	83.5	83.5
≥ 7000		60.9	69.9	79.0	83.2	83.6	84.2	84.4	84.4	84.6	84.6	84.6	84.6
≥ 6000		61.0	70.1	79.2	83.4	83.9	84.4	84.7	84.7	84.8	84.8	84.8	84.8
≥ 5000		61.5	70.7	79.8	84.0	84.5	85.1	85.3	85.3	85.5	85.5	85.5	85.5
≥ 4500		61.5	70.7	79.9	84.1	84.6	85.2	85.4	85.4	85.6	85.6	85.6	85.6
≥ 4000		62.5	71.8	81.2	85.4	85.9	86.5	86.7	86.7	86.9	86.9	86.9	86.9
≥ 3500		62.8	72.2	81.7	85.9	86.4	86.9	87.2	87.2	87.3	87.3	87.3	87.3
≥ 3000		66.2	76.0	85.7	90.3	91.1	91.7	91.9	91.9	92.1	92.1	92.1	92.1
≥ 2500		66.8	76.7	86.6	91.2	91.9	92.7	93.0	93.0	93.2	93.2	93.2	93.2
≥ 2000		67.4	77.4	87.5	92.2	92.9	93.7	94.0	94.0	94.1	94.1	94.1	94.1
≥ 1800		67.5	77.5	87.6	92.3	93.0	93.8	94.0	94.0	94.2	94.2	94.2	94.2
≥ 1500		68.6	78.9	89.3	94.0	94.9	95.7	96.0	96.0	96.1	96.1	96.1	96.1
≥ 1200		68.7	79.2	90.0	94.8	95.8	96.6	96.9	96.9	97.0	97.0	97.0	97.0
≥ 1000		69.0	79.5	90.7	95.5	96.5	97.3	97.6	97.6	97.7	97.7	97.7	97.7
≥ 900		69.1	79.6	90.7	95.7	96.7	97.5	97.7	97.7	97.9	97.9	97.9	97.9
≥ 800		69.4	80.2	91.5	96.7	97.7	98.6	98.9	98.9	99.0	99.0	99.0	99.0
≥ 700		69.4	80.2	91.5	96.7	97.7	98.6	98.9	98.9	99.1	99.1	99.1	99.1
≥ 600		69.5	80.3	91.6	96.9	97.9	98.7	99.0	99.0	99.3	99.3	99.3	99.3
≥ 500		69.5	80.3	91.7	96.9	98.0	98.8	99.1	99.1	99.4	99.4	99.4	99.4
≥ 400		69.5	80.3	91.7	97.0	98.2	99.0	99.3	99.3	99.6	99.6	99.6	99.6
≥ 300		69.5	80.3	91.7	97.0	98.2	99.0	99.4	99.4	99.7	99.8	99.8	99.8
≥ 200		69.5	80.3	91.7	97.0	98.2	99.0	99.4	99.4	99.7	99.8	99.8	99.8
≥ 100		69.5	80.3	91.7	97.0	98.2	99.0	99.4	99.4	99.7	99.8	99.8	99.8
0		69.5	80.3	91.7	97.0	98.2	99.0	99.4	99.4	99.7	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS

1240

DIRNAVOCEANMET SMOS



1229 0101  
2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

AUG  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING												
≥ 20000	47.1	59.4	63.2	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 18000	53.6	67.1	71.6	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 16000	53.6	67.1	71.6	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 14000	53.6	67.1	71.6	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 12000	53.6	67.1	71.6	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 10000	56.8	71.6	76.1	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 9000	57.4	72.3	76.8	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 8000	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 7000	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 6000	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 5000	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 4500	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 4000	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 3500	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 3000	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 2500	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 2000	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1800	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1500	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1200	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1000	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 900	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 800	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 700	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 600	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 500	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 400	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 300	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 200	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 100	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
0	63.2	78.7	83.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

AUG  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		46.5	50.3	61.3	64.5	65.2	65.8	66.5	66.5	66.5	66.5	66.5	66.5
≥ 18000		49.7	55.5	66.5	69.7	70.3	71.0	71.6	71.6	71.6	71.6	71.6	71.6
≥ 16000		49.7	55.5	66.5	69.7	70.3	71.0	71.6	71.6	71.6	71.6	71.6	71.6
≥ 14000		49.7	55.5	66.5	69.7	70.3	71.0	71.6	71.6	71.6	71.6	71.6	71.6
≥ 12000		49.7	55.5	66.5	69.7	70.3	71.0	71.6	71.6	71.6	71.6	71.6	71.6
≥ 10000		53.6	61.3	72.3	76.1	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.1
≥ 9000		53.6	61.3	72.3	76.1	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.1
≥ 8000		57.4	65.8	76.8	80.7	81.3	81.9	82.6	82.6	82.6	82.6	82.6	82.6
≥ 7000		59.4	67.7	78.7	82.6	83.2	83.9	84.5	84.5	84.5	84.5	84.5	84.5
≥ 6000		59.4	68.4	79.4	83.2	83.9	84.5	85.2	85.2	85.2	85.2	85.2	85.2
≥ 5000		60.0	69.0	80.7	84.5	85.2	85.8	86.5	86.5	86.5	86.5	86.5	86.5
≥ 4500		60.0	69.0	80.7	84.5	85.2	85.8	86.5	86.5	86.5	86.5	86.5	86.5
≥ 4000		60.0	69.0	80.7	84.5	85.2	85.8	86.5	86.5	86.5	86.5	86.5	86.5
≥ 3500		60.0	69.0	80.7	84.5	85.2	85.8	86.5	86.5	86.5	86.5	86.5	86.5
≥ 3000		63.9	72.9	84.5	88.4	89.0	89.7	90.3	90.3	90.3	90.3	90.3	90.3
≥ 2500		64.5	73.6	85.8	89.7	90.3	91.0	91.6	91.6	91.6	91.6	91.6	91.6
≥ 2000		65.8	74.8	87.7	91.6	92.3	92.9	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1800		65.8	74.8	87.7	91.6	92.3	92.9	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1500		66.5	75.5	88.4	92.3	92.9	93.6	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1200		67.1	76.1	89.0	92.9	93.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1000		68.4	77.4	90.3	94.2	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 900		69.0	78.1	91.0	94.8	95.5	96.1	96.8	96.8	96.8	96.8	96.8	96.8
≥ 800		69.7	78.7	91.6	95.5	96.1	96.8	97.4	97.4	97.4	97.4	97.4	97.4
≥ 700		69.7	78.7	91.6	96.1	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1
≥ 600		69.7	79.4	92.3	96.8	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500		69.7	79.4	92.3	97.4	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400		69.7	79.4	92.9	97.4	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300		69.7	79.4	92.9	97.4	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200		69.7	79.4	92.9	97.4	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100		69.7	79.4	92.9	97.4	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4
0		69.7	79.4	92.9	97.4	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

AUG  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING ≥ 20000		29.0	36.1	40.0	44.5	46.5	50.3	51.0	51.0	51.0	51.6	51.6	51.6
≥ 18000		32.3	42.6	47.7	52.9	55.5	60.0	60.7	60.7	60.7	61.3	61.3	61.3
≥ 16000		32.3	42.6	47.7	52.9	55.5	60.0	60.7	60.7	60.7	61.3	61.3	61.3
≥ 14000		32.9	43.9	49.7	54.8	57.4	61.9	62.6	62.6	62.6	63.2	63.2	63.2
≥ 12000		33.6	44.5	50.3	55.5	58.1	62.6	63.9	63.9	63.9	64.5	64.5	64.5
≥ 10000		38.7	50.3	58.1	63.9	66.5	71.6	72.9	72.9	72.9	74.2	74.2	74.2
≥ 9000		38.7	50.3	58.1	63.9	66.5	71.6	72.9	72.9	72.9	74.2	74.2	74.2
≥ 8000		43.2	56.8	65.2	71.6	74.2	79.4	80.7	80.7	80.7	81.9	81.9	81.9
≥ 7000		43.2	56.8	65.2	71.6	74.2	79.4	80.7	80.7	80.7	81.9	81.9	81.9
≥ 6000		43.2	56.8	65.2	72.3	74.8	80.0	81.3	81.3	81.3	82.6	82.6	82.6
≥ 5000		43.2	56.8	65.2	72.3	74.8	80.0	81.3	81.3	81.3	82.6	82.6	82.6
≥ 4500		43.2	56.8	65.2	72.3	74.8	80.0	81.3	81.3	81.3	82.6	82.6	82.6
≥ 4000		43.9	57.4	65.8	72.9	76.1	81.3	82.6	82.6	82.6	83.9	83.9	83.9
≥ 3500		44.5	58.1	66.5	73.6	76.8	81.9	83.2	83.2	83.2	84.5	84.5	84.5
≥ 3000		45.8	59.4	67.7	74.8	78.1	83.2	84.5	84.5	84.5	85.8	85.8	85.8
≥ 2500		46.5	60.0	68.4	75.5	78.7	84.5	85.8	85.8	85.8	87.1	87.1	87.1
≥ 2000		47.7	61.9	70.3	77.4	80.7	86.5	87.7	87.7	87.7	89.0	89.0	89.0
≥ 1800		47.7	61.9	70.3	77.4	80.7	86.5	87.7	87.7	87.7	89.0	89.0	89.0
≥ 1500		47.7	61.9	70.3	77.4	80.7	86.5	87.7	87.7	87.7	89.0	89.0	89.0
≥ 1200		47.7	61.9	71.0	78.1	81.9	88.4	89.7	89.7	89.7	91.0	91.0	91.0
≥ 1000		47.7	62.6	71.6	78.7	83.2	89.7	91.0	91.0	91.0	92.3	92.3	92.3
≥ 900		47.7	62.6	71.6	78.7	83.2	89.7	91.0	91.0	91.0	92.3	92.3	92.3
≥ 800		47.7	63.2	72.3	79.4	83.9	90.3	91.6	91.6	91.6	92.9	92.9	92.9
≥ 700		48.4	64.5	73.6	80.7	85.2	91.6	93.6	93.6	93.6	94.8	94.8	94.8
≥ 600		49.7	65.8	74.8	81.9	86.5	92.9	94.8	94.8	94.8	96.1	96.1	96.1
≥ 500		49.7	65.8	75.5	82.6	87.1	94.2	96.1	96.1	96.1	97.4	97.4	97.4
≥ 400		49.7	65.8	75.5	83.2	87.7	94.8	96.8	96.8	96.8	98.1	98.1	98.1
≥ 300		49.7	65.8	75.5	83.2	87.7	94.8	97.4	97.4	97.4	98.7	98.7	98.7
≥ 200		49.7	65.8	75.5	83.2	87.7	94.8	97.4	97.4	97.4	98.7	98.7	98.7
≥ 100		49.7	65.8	75.5	83.2	87.7	94.8	97.4	97.4	97.4	98.7	98.7	98.7
0		49.7	65.8	75.5	83.2	87.7	94.8	97.4	97.4	97.4	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

125

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA

73-77

YEARS

AUG  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000	36.1	43.2	47.7	54.2	55.5	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 18000	42.6	50.3	57.4	64.5	65.8	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 16000	42.6	50.3	57.4	64.5	65.8	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 14000	43.2	51.0	58.1	65.2	66.5	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 12000	44.5	52.3	59.4	66.5	67.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 10000	49.0	56.8	64.5	72.9	74.2	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 9000	52.3	61.3	69.0	77.4	78.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
8000	52.9	61.9	69.7	78.1	79.4	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
7000	52.9	63.2	71.0	79.4	80.7	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
6000	52.9	63.2	71.0	79.4	80.7	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
5000	52.9	63.2	71.0	79.4	80.7	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
4500	54.2	64.5	73.6	81.9	83.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
4000	54.2	64.5	73.6	81.9	83.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
3500	56.8	67.1	76.1	85.2	86.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
3000	57.4	67.7	76.8	85.8	87.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
2500	58.1	68.4	77.4	86.5	87.8	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
2000	58.1	68.4	77.4	86.5	87.8	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
1800	58.1	68.4	77.4	86.5	87.8	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
1500	58.7	69.0	78.1	87.1	89.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
1200	61.3	72.9	81.9	91.0	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
1000	62.6	74.2	83.9	92.9	94.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
900	63.2	74.8	84.5	93.6	95.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
800	63.2	74.8	84.5	93.6	95.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
700	63.9	75.5	85.2	94.2	96.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
600	63.9	75.5	85.2	94.2	96.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
500	63.9	75.5	85.2	94.2	96.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	63.9	75.5	85.2	94.2	96.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	63.9	75.5	85.2	94.2	96.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	63.9	75.5	85.2	94.2	96.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	63.9	75.5	85.2	94.2	96.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	63.9	75.5	85.2	94.2	96.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

AUG  
MONTH

13  
HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		44.5	52.3	59.4	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 20000		51.0	59.4	67.7	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 18000		51.0	59.4	67.7	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 16000		51.0	59.4	67.7	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 14000		51.0	59.4	67.7	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 12000		51.6	60.7	69.0	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 10000		52.9	61.9	71.0	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 9000		52.9	62.6	71.6	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 8000		56.8	66.5	75.5	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 7000		56.8	66.5	75.5	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 6000		56.8	66.5	75.5	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 5000		56.8	66.5	75.5	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 4500		57.4	67.1	76.8	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 4000		58.7	68.4	78.1	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 3500		58.7	68.4	78.1	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 3000		61.9	72.3	81.9	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 2500		63.9	75.5	85.8	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2000		64.5	76.1	87.1	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1800		64.5	76.1	87.1	91.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1500		65.2	76.8	88.4	92.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1200		66.5	78.1	91.0	95.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1000		68.4	80.0	92.9	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		68.4	80.0	92.9	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		68.4	80.0	92.9	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700		68.4	80.0	92.9	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600		68.4	80.0	92.9	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500		69.0	80.7	93.6	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400		69.0	80.7	93.6	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300		69.0	80.7	93.6	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200		69.0	80.7	93.6	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100		69.0	80.7	93.6	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0		69.0	80.7	93.6	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
13750

NORFOLK, VIRGINIA

73-77

YEARS

AUG  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING		39.4	47.1	56.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 20000		45.2	54.2	63.2	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
AI 18000		45.2	54.2	63.2	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
AI 16000		45.2	54.2	63.2	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
AI 14000		45.2	54.2	63.2	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
AI 12000		46.5	55.5	64.5	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
AI 10000		47.7	57.4	66.5	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
AI 9000		48.4	58.1	67.1	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
AI 8000		53.6	63.9	72.9	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
AI 7000		54.2	64.5	73.6	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
AI 6000		54.2	64.5	73.6	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
AI 5000		54.2	65.2	74.2	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
AI 4500		54.2	65.2	74.2	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
AI 4000		54.8	65.8	74.8	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
AI 3500		55.5	66.5	75.5	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
AI 3000		60.0	71.6	81.9	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
AI 2500		62.6	74.2	85.2	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
AI 2000		65.8	78.1	89.7	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
AI 1800		65.8	78.1	89.7	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
AI 1500		65.8	78.1	89.7	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
AI 1200		66.5	78.7	90.3	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
AI 1000		67.1	79.4	91.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
AI 900		67.1	79.4	91.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
AI 800		67.1	79.4	91.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
AI 700		67.1	79.4	91.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
AI 600		67.1	79.4	91.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
AI 500		67.7	80.0	91.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
AI 400		67.7	80.0	91.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
AI 300		67.7	80.0	91.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
AI 200		67.7	80.0	91.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
AI 100		67.7	80.0	91.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
AI AI		67.7	80.0	91.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8

TOTAL NUMBER OF OBSERVATIONS

155



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

AUG  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19  
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING		43.2	51.6	58.7	61.3	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 20000														
18000		52.3	61.3	68.4	72.3	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
16000		52.3	61.3	68.4	72.3	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
14000		52.3	61.3	68.4	72.3	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
12000		52.9	63.2	70.3	74.2	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
10000		57.4	68.4	75.5	79.4	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
9000		58.1	69.0	76.1	80.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
8000		60.7	71.6	78.7	83.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
7000		61.9	72.9	80.0	84.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
6000		63.2	74.2	81.3	85.8	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
5000		63.2	74.2	81.3	85.8	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
4500		63.2	74.2	81.3	85.8	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
4000		63.9	74.8	81.9	86.5	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
3500		63.9	74.8	81.9	86.5	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
3000		65.8	78.1	85.2	89.7	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
2500		67.7	80.7	88.4	93.6	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
2000		68.4	81.3	89.0	94.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
1800		68.4	81.3	89.0	94.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
1500		69.0	81.9	89.7	95.5	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
1200		69.7	82.6	90.3	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
1000		69.7	82.6	91.0	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
900		69.7	82.6	91.0	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
800		69.7	82.6	91.0	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
700		69.7	82.6	91.0	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
600		69.7	82.6	91.0	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
500		69.7	82.6	91.0	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
400		69.7	82.6	91.0	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
300		69.7	82.6	91.0	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
200		69.7	82.6	91.0	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
100		69.7	82.6	91.0	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0		69.7	82.6	91.0	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

AUG  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22  
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16	≥ ¼
NO CEILING													≥ 0
≥ 20000	49.7	56.1	60.7	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 18000	56.1	63.2	67.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 16000	56.1	63.2	67.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 14000	56.1	63.2	67.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 12000	57.4	64.5	69.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 10000	63.2	71.0	75.5	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 9000	63.2	71.0	75.5	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 8000	67.1	76.1	80.7	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 7000	67.7	76.8	81.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 6000	68.4	77.4	81.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 5000	68.4	78.1	82.6	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 4500	69.0	79.4	84.5	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 4000	69.7	80.0	85.2	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 3500	72.3	82.6	87.7	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 3000	74.2	84.5	90.3	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 2500	77.4	87.7	93.6	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 2000	77.4	87.7	93.6	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1800	78.1	88.4	94.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1500	78.1	88.4	94.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200	78.1	88.4	94.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000	78.1	88.4	94.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900	78.1	88.4	94.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800	78.1	88.4	94.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700	78.1	88.4	94.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600	78.1	88.4	94.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500	78.1	88.4	94.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400	78.1	88.4	94.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	78.1	88.4	94.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	78.1	88.4	94.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100	78.1	88.4	94.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0	78.1	88.4	94.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION 13750 NORFOLK, VIRGINIA 73-77 YEARS 1973-77 MONTH NORTH AUG HOURS (L.S.T.) ALL

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING												
≥ 20000	41.9	49.5	55.9	59.6	60.4	61.2	61.4	61.4	61.4	61.4	61.5	61.5
≥ 18000	47.8	56.7	63.8	67.9	68.8	69.7	69.8	69.8	69.8	69.8	69.9	69.9
≥ 16000	47.8	56.7	63.8	67.9	68.8	69.7	69.8	69.8	69.8	69.8	69.9	69.9
≥ 14000	48.0	56.9	64.1	68.3	69.2	70.1	70.2	70.2	70.2	70.2	70.3	70.3
≥ 12000	48.7	58.0	65.2	69.4	70.3	71.2	71.5	71.5	71.5	71.5	71.5	71.5
≥ 10000	52.4	62.3	69.9	74.5	75.4	76.4	76.6	76.6	76.6	76.6	76.8	76.8
≥ 9000	52.7	62.7	70.2	74.8	75.7	76.7	76.9	76.9	76.9	76.9	77.1	77.1
≥ 8000	56.8	67.6	75.2	80.0	80.9	81.9	82.2	82.2	82.2	82.2	82.3	82.3
≥ 7000	57.4	68.2	75.9	80.7	81.5	82.6	82.8	82.8	82.8	82.8	83.0	83.0
≥ 6000	57.7	68.7	76.5	81.3	82.2	83.2	83.5	83.5	83.5	83.5	83.6	83.6
≥ 5000	57.7	69.0	76.9	81.7	82.6	83.6	84.0	84.0	84.0	84.0	84.1	84.1
≥ 4500	57.8	69.1	77.1	81.9	82.8	83.9	84.2	84.2	84.2	84.2	84.4	84.4
≥ 4000	58.6	69.8	78.2	83.1	84.0	85.1	85.4	85.4	85.4	85.4	85.6	85.6
≥ 3500	58.8	70.1	78.4	83.3	84.3	85.3	85.7	85.7	85.7	85.7	85.8	85.8
≥ 3000	61.7	73.3	81.8	86.9	87.9	89.0	89.3	89.3	89.3	89.3	89.4	89.4
≥ 2500	63.0	74.8	83.8	89.1	90.1	91.3	91.6	91.6	91.6	91.6	91.8	91.8
≥ 2000	64.4	76.5	85.7	91.2	92.3	93.5	93.8	93.8	93.8	93.8	94.0	94.0
≥ 1800	64.4	76.6	85.8	91.3	92.4	93.7	94.0	94.0	94.0	94.0	94.2	94.2
≥ 1500	64.9	77.1	86.4	91.9	93.0	94.4	94.7	94.7	94.7	94.7	94.8	94.8
≥ 1200	65.7	78.0	87.5	93.0	94.0	95.7	96.0	96.0	96.0	96.0	96.1	96.1
≥ 1000	66.3	78.7	88.4	94.0	95.3	96.8	97.1	97.1	97.1	97.1	97.3	97.3
≥ 900	66.5	79.0	88.6	94.3	95.6	97.0	97.3	97.3	97.3	97.3	97.5	97.5
≥ 800	66.7	79.2	88.9	94.5	95.9	97.3	97.7	97.7	97.7	97.7	97.8	97.8
≥ 700	67.0	79.6	89.3	95.0	96.5	97.9	98.3	98.3	98.3	98.3	98.5	98.5
≥ 600	67.2	79.8	89.5	95.2	96.7	98.2	98.6	98.6	98.6	98.6	98.7	98.7
≥ 500	67.4	80.1	89.8	95.6	97.0	98.6	99.1	99.1	99.1	99.1	99.3	99.3
≥ 400	67.4	80.2	90.0	95.8	97.3	98.9	99.4	99.4	99.4	99.4	99.5	99.5
≥ 300	67.4	80.2	90.0	95.8	97.3	98.9	99.4	99.4	99.4	99.4	99.6	99.6
≥ 200	67.4	80.2	90.0	95.8	97.3	98.9	99.4	99.4	99.4	99.4	99.6	99.6
≥ 100	67.4	80.2	90.0	95.8	97.3	98.9	99.4	99.4	99.4	99.4	99.6	99.6
0	67.4	80.2	90.0	95.8	97.3	98.9	99.4	99.4	99.4	99.4	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 1240



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

SEP  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														
≥ 20000		56.0	60.0	63.3	64.7	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3	66.0
18000		61.3	65.3	68.7	70.0	70.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7	71.3
16000		61.3	65.3	68.7	70.0	70.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7	71.3
14000		61.3	65.3	68.7	70.0	70.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7	71.3
12000		62.7	66.7	70.0	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.7
10000		66.7	72.0	75.3	76.7	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	78.0
9000		67.3	72.7	76.0	77.3	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.7
8000		71.3	76.7	80.0	81.3	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.7
7000		71.3	76.7	80.0	81.3	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.7
6000		71.3	76.7	80.0	81.3	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.7
5000		71.3	76.7	80.0	81.3	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.7
4500		71.3	76.7	80.0	81.3	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.7
4000		74.0	79.3	82.7	84.0	84.0	84.7	84.7	84.7	84.7	84.7	84.7	84.7	85.3
3500		76.0	81.3	84.7	86.0	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	87.3
3000		76.7	82.0	86.0	87.3	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.7
2500		78.0	83.3	87.3	88.7	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	90.0
2000		78.7	84.0	88.0	89.3	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.7
1800		80.0	85.3	89.3	90.7	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	92.0
1500		81.3	86.7	90.7	92.0	92.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7	93.3
1200		81.3	88.0	92.0	93.3	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.7
1000		82.0	88.7	92.7	94.0	94.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	96.0
900		82.0	88.7	94.0	95.3	95.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	97.3
800		82.0	89.3	94.7	96.0	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	98.0
700		82.0	89.3	94.7	96.0	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	98.0
600		82.0	89.3	94.7	96.0	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	98.0
500		82.7	90.0	96.0	97.3	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.3
400		82.7	90.0	96.0	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.7
300		82.7	90.0	96.0	98.0	98.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
200		82.7	90.0	96.0	98.0	98.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
100		82.7	90.0	96.0	98.0	98.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
0		82.7	90.0	96.0	98.0	98.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA

73-77

SEP  
MONTH

YEARS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING		46.7	52.7	56.0	59.3	60.0	60.0	60.0	60.0	60.0	60.0	60.7	60.7	60.7
≥ 20000		49.3	55.3	58.7	62.0	62.7	62.7	62.7	62.7	62.7	62.7	63.3	63.3	63.3
18000		49.3	55.3	58.7	62.0	62.7	62.7	62.7	62.7	62.7	62.7	63.3	63.3	63.3
≥ 16000		49.3	55.3	58.7	62.0	62.7	62.7	62.7	62.7	62.7	62.7	63.3	63.3	63.3
14000		49.3	55.3	58.7	62.0	62.7	62.7	62.7	62.7	62.7	62.7	63.3	63.3	63.3
≥ 12000		50.0	56.0	59.3	62.7	63.3	63.3	63.3	63.3	63.3	63.3	64.0	64.0	64.0
10000		54.0	60.0	63.3	66.7	67.3	67.3	67.3	67.3	67.3	67.3	68.0	68.0	68.0
≥ 9000		54.7	60.7	64.0	67.3	68.0	68.0	68.0	68.0	68.0	68.0	68.7	68.7	68.7
8000		62.7	68.7	72.0	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.7	76.7	76.7
7000		62.7	68.7	72.0	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.7	76.7	76.7
6000		63.3	69.3	72.7	76.0	76.7	76.7	76.7	76.7	76.7	76.7	77.3	77.3	77.3
≥ 5000		64.0	70.0	73.3	76.7	77.3	77.3	77.3	77.3	77.3	77.3	78.0	78.0	78.0
4500		65.3	71.3	74.7	78.0	78.7	78.7	78.7	78.7	78.7	78.7	79.3	79.3	79.3
4000		67.3	73.3	76.7	80.0	80.7	80.7	80.7	80.7	80.7	80.7	81.3	81.3	81.3
3500		68.0	74.0	77.3	80.7	81.3	81.3	81.3	81.3	81.3	81.3	82.0	82.0	82.0
≥ 3000		68.7	74.7	78.0	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.7	82.7	82.7
2500		69.3	75.3	78.7	82.0	82.7	82.7	82.7	82.7	82.7	82.7	83.3	83.3	83.3
2000		70.0	76.0	79.3	82.7	83.3	83.3	83.3	83.3	83.3	83.3	84.0	84.0	84.0
1800		72.0	78.0	81.3	84.7	85.3	85.3	85.3	85.3	85.3	85.3	86.0	86.0	86.0
1500		73.3	79.3	82.7	86.0	86.7	86.7	86.7	86.7	86.7	86.7	87.3	87.3	87.3
1200		74.7	81.3	85.3	88.7	89.3	89.3	89.3	89.3	89.3	89.3	90.0	90.0	90.0
≥ 1000		75.3	82.0	86.7	90.7	91.3	91.3	91.3	91.3	91.3	91.3	92.0	92.0	92.0
900		76.0	82.7	88.0	92.7	93.3	93.3	93.3	93.3	93.3	93.3	94.0	94.0	94.0
800		76.7	83.3	89.3	94.0	95.3	95.3	95.3	95.3	95.3	95.3	96.0	96.0	96.0
700		77.3	84.0	90.0	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.7	96.7	96.7
600		78.0	84.7	90.7	95.3	96.7	96.7	96.7	96.7	96.7	96.7	97.3	97.3	97.3
500		78.0	85.3	91.3	96.0	97.3	97.3	97.3	97.3	97.3	97.3	98.0	98.0	98.0
400		78.0	85.3	91.3	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.7	98.7	98.7
300		78.0	85.3	91.3	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.7	98.7	98.7
200		78.0	85.3	91.3	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.7	98.7	98.7
100		78.0	85.3	91.3	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.7	98.7	98.7
0		78.0	85.3	91.3	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

SEP  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	28.7	34.7	42.7	45.3	45.3	45.3	48.7	49.3	49.3	49.3	50.7	50.7	50.7
≥ 20000	31.3	39.3	47.3	50.0	50.0	50.7	54.0	54.7	54.7	54.7	56.0	56.0	56.0
18000	31.3	39.3	47.3	50.0	50.0	50.7	54.0	54.7	54.7	54.7	56.0	56.0	56.0
16000	31.3	39.3	47.3	50.0	50.0	50.7	54.0	54.7	54.7	54.7	56.0	56.0	56.0
14000	31.3	39.3	47.3	50.0	50.0	50.7	54.0	54.7	54.7	54.7	56.0	56.0	56.0
12000	33.3	41.3	49.3	52.7	53.3	53.3	56.7	57.3	57.3	57.3	58.7	58.7	58.7
10000	36.0	44.7	52.7	56.0	56.7	56.7	60.0	60.7	60.7	60.7	62.0	62.0	62.0
9000	36.0	44.7	52.7	56.0	56.7	56.7	60.0	60.7	60.7	60.7	62.0	62.0	62.0
8000	43.3	53.3	61.3	65.3	66.0	66.0	69.3	70.0	70.0	70.0	72.0	72.0	72.0
7000	45.3	55.3	63.3	68.0	68.7	68.7	72.0	72.7	72.7	73.3	74.7	74.7	74.7
6000	46.0	56.7	64.7	69.3	70.0	70.0	73.3	74.0	74.0	74.7	76.0	76.0	76.0
5000	47.3	58.0	66.0	71.3	72.0	72.0	75.3	76.0	76.0	76.7	78.0	78.0	78.0
4500	47.3	58.0	66.0	72.0	72.0	72.7	76.0	76.7	76.7	77.3	78.7	78.7	78.7
4000	49.3	60.0	69.3	74.7	75.3	75.3	79.3	80.0	80.0	80.7	82.0	82.0	82.0
3500	51.3	62.0	72.0	77.3	78.0	78.0	82.0	82.7	82.7	83.3	84.7	84.7	84.7
3000	52.7	63.3	73.3	78.7	79.3	79.3	83.3	84.0	84.0	84.7	86.0	86.0	86.0
2500	53.3	64.0	74.0	79.3	80.0	80.0	84.0	84.7	84.7	85.3	86.7	86.7	86.7
2000	55.3	66.0	76.0	82.0	82.7	82.7	86.7	87.3	87.3	88.0	89.3	89.3	89.3
1800	55.3	66.0	76.0	82.0	82.7	82.7	86.7	87.3	87.3	88.0	89.3	89.3	89.3
1500	56.7	67.3	77.3	83.3	84.0	84.0	88.0	88.7	88.7	89.3	90.7	90.7	90.7
1200	56.7	67.3	77.3	83.3	84.0	84.0	88.0	88.7	88.7	89.3	90.7	90.7	90.7
1000	58.0	68.7	79.3	86.0	86.7	86.7	90.7	92.0	92.0	92.7	94.0	94.0	94.0
900	59.3	70.0	82.0	88.7	89.3	89.3	93.3	94.7	94.7	95.3	96.7	96.7	96.7
800	59.3	70.0	82.0	88.7	89.3	89.3	93.3	94.7	94.7	95.3	96.7	96.7	96.7
700	59.3	70.0	82.0	88.7	89.3	89.3	93.3	94.7	94.7	95.3	96.7	96.7	96.7
600	60.0	70.7	84.7	91.3	91.3	91.3	95.3	96.7	96.7	97.3	98.7	98.7	98.7
500	60.0	70.7	84.7	91.3	91.3	91.3	95.3	96.7	96.7	97.3	98.7	98.7	98.7
400	60.0	70.7	84.7	91.3	91.3	91.3	95.3	96.7	96.7	97.3	98.7	98.7	98.7
300	60.0	70.7	84.7	91.3	91.3	91.3	95.3	96.7	96.7	97.3	98.7	98.7	98.7
200	60.0	70.7	84.7	91.3	91.3	91.3	95.3	96.7	96.7	97.3	98.7	98.7	98.7
100	60.0	70.7	84.7	91.3	91.3	91.3	95.3	96.7	96.7	97.3	98.7	98.7	98.7
0	60.0	70.7	84.7	91.3	91.3	91.3	95.3	96.7	96.7	97.3	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS 150



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

SEP  
MONTH10  
HOURS (L.S.T.)PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														≥ 0
≥ 20000		41.3	46.0	48.7	52.0	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 18000		48.0	52.7	56.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 16000		48.0	52.7	56.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 14000		48.0	52.7	56.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 12000		48.7	53.3	57.3	61.3	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 10000		52.0	56.7	60.7	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 9000		52.0	56.7	60.7	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 8000		56.0	62.0	66.0	70.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 7000		57.3	63.3	68.0	72.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 6000		57.3	63.3	68.0	72.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 5000		58.0	64.0	68.7	72.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 4500		58.0	64.0	68.7	72.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 4000		59.3	65.0	70.7	74.7	75.3	76.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 3500		60.0	66.7	71.3	75.3	76.0	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 3000		62.0	68.7	73.3	77.3	78.0	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 2500		63.3	70.0	74.7	79.3	80.0	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 2000		68.0	74.7	80.0	84.7	85.3	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 1800		68.7	75.3	80.7	85.3	86.0	86.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 1500		72.7	81.3	87.3	92.0	92.7	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1200		73.3	82.7	88.7	94.0	94.7	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1000		74.0	83.3	89.3	94.7	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 900		74.0	83.3	89.3	94.7	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 800		74.0	83.3	89.3	94.7	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 700		74.0	84.0	90.0	95.3	96.0	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600		74.7	85.3	91.3	96.7	97.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		74.7	85.3	91.3	96.7	97.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		74.7	85.3	91.3	96.7	97.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		74.7	85.3	91.3	96.7	97.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		74.7	85.3	91.3	96.7	97.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		74.7	85.3	91.3	96.7	97.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		74.7	85.3	91.3	96.7	97.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET

SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750 STATION

NORFOLK, VIRGINIA

73-77

YEARS

SEP MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING		42.7	50.7	55.3	56.0	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 20000		50.0	58.0	62.7	63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 18000		50.0	58.0	62.7	63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 16000		50.0	58.0	62.7	63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 14000		50.0	58.0	62.7	63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 12000		51.3	59.3	64.0	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 10000		54.0	62.0	66.7	68.0	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 9000		54.0	62.0	66.7	68.0	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 8000		58.0	66.7	71.3	72.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 7000		59.3	68.7	73.3	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 6000		59.3	68.7	73.3	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 5000		59.3	68.7	73.3	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 4500		59.3	68.7	73.3	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 4000		60.0	70.0	74.7	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 3500		60.0	70.0	74.7	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 3000		63.3	73.3	78.0	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 2500		67.3	77.3	82.0	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 2000		70.0	80.7	85.3	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1800		71.3	82.7	87.3	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1500		72.7	84.0	89.3	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1200		73.3	85.3	90.7	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1000		74.0	86.0	91.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 900		74.0	86.0	92.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 800		74.0	86.0	92.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 700		74.0	86.0	92.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 600		74.0	86.0	92.0	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500		74.0	86.0	92.0	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400		74.0	86.0	92.0	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300		74.0	86.0	92.0	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200		74.0	86.0	92.0	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 100		74.0	86.0	92.0	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 0		74.0	86.0	92.0	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

150

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

SEP  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING												
≥ 20000		47.3	52.7	54.7	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 18000		54.0	59.3	61.3	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 16000		54.0	59.3	61.3	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 14000		54.0	59.3	61.3	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 12000		54.7	60.0	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 10000		57.3	62.7	64.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 9000		57.3	62.7	64.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 8000		63.3	69.3	71.3	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 7000		64.0	70.0	72.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 6000		65.3	71.3	73.3	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 5000		66.7	72.7	74.7	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 4500		67.3	73.3	75.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 4000		69.3	75.3	78.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 3500		70.7	76.7	80.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 3000		74.0	80.0	84.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 2500		78.0	84.0	89.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 2000		79.3	85.3	90.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1800		80.0	86.0	91.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1500		81.3	88.0	94.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1200		81.3	88.0	95.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1000		81.3	88.0	95.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 900		81.3	88.0	95.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 800		81.3	88.0	95.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 700		81.3	88.0	96.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600		81.3	88.0	96.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		81.3	88.0	96.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		81.3	88.0	96.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		81.3	88.0	96.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		81.3	88.0	96.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		81.3	88.0	96.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		81.3	88.0	96.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0

150

TOTAL NUMBER OF OBSERVATIONS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

73-77

YEARS

SEP  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		47.3	49.3	54.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 20000		52.7	54.7	60.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
18000		52.7	54.7	60.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 16000		52.7	54.7	60.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
14000		52.7	54.7	60.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 12000		54.7	56.7	62.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
10000		57.3	59.3	66.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 9000		57.3	59.3	66.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
8000		62.7	64.7	72.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 7000		64.7	67.3	74.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
6000		65.3	68.7	76.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 5000		67.3	70.7	78.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
4500		67.3	70.7	78.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
4000		69.3	72.7	80.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
3500		70.7	74.0	81.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 3000		72.0	75.3	82.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
2500		73.3	76.7	84.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 2000		74.7	78.0	85.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
1800		74.7	78.0	85.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
1500		75.3	78.7	86.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
1200		76.0	79.3	88.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1000		76.7	80.7	89.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
900		76.7	81.3	90.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
800		78.0	83.3	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
700		78.0	83.3	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
600		78.0	83.3	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
500		78.0	83.3	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
400		78.0	83.3	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
300		78.0	83.3	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
200		78.0	83.3	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
100		78.0	83.3	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
0		78.0	83.3	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0

TOTAL NUMBER OF OBSERVATIONS

150



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

SEP  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16	≥ ¼
NO CEILING													≥ 0
≥ 20000	57.3	60.7	64.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 18000	64.0	67.3	71.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 16000	64.0	67.3	71.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 14000	64.0	67.3	71.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 12000	64.7	68.0	72.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 10000	67.3	70.7	74.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 9000	67.3	70.7	74.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 8000	71.3	74.7	78.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 7000	72.7	76.0	80.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 6000	72.7	76.0	80.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 5000	74.7	78.0	82.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 4500	74.7	78.0	82.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 4000	75.3	78.7	83.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 3500	76.0	79.3	84.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 3000	76.0	80.0	84.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 2500	78.0	81.3	86.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 2000	80.7	84.7	89.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1800	81.3	85.3	90.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1500	81.3	85.3	90.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1200	82.7	87.3	92.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1000	82.7	87.3	92.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 900	82.7	87.3	92.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 800	83.3	89.3	95.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 700	83.3	89.3	95.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 600	83.3	89.3	95.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 500	84.0	90.0	96.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400	84.0	90.0	96.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	84.0	90.0	96.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	84.0	90.0	96.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100	84.0	90.0	96.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0	84.0	90.0	96.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

SEP  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														≥ 0
≥ 20000	45.9	50.8	54.9	57.0	57.3	57.8	57.8	57.8	57.8	57.8	58.0	58.1	58.1	58.2
≥ 18000	51.3	56.5	60.9	63.1	63.4	63.9	64.0	64.0	64.0	64.0	64.2	64.3	64.3	64.3
≥ 16000	51.3	56.5	60.9	63.1	63.4	63.9	64.0	64.0	64.0	64.0	64.2	64.3	64.3	64.3
≥ 14000	51.3	56.5	60.9	63.1	63.4	63.9	64.0	64.0	64.0	64.0	64.2	64.3	64.3	64.3
≥ 12000	51.3	56.5	60.9	63.1	63.4	63.9	64.0	64.0	64.0	64.0	64.2	64.3	64.3	64.3
≥ 10000	52.5	57.7	62.1	64.4	64.8	65.3	65.3	65.3	65.3	65.3	65.5	65.6	65.6	65.7
≥ 9000	55.6	61.0	65.6	68.0	68.3	68.9	69.0	69.0	69.0	69.0	69.2	69.3	69.3	69.3
≥ 8000	55.8	61.2	65.8	68.2	68.5	69.1	69.2	69.2	69.2	69.2	69.3	69.4	69.4	69.5
≥ 7000	61.1	67.0	71.7	74.2	74.5	75.1	75.2	75.2	75.2	75.3	75.4	75.5	75.5	75.6
≥ 6000	62.2	68.3	73.0	75.6	75.9	76.5	76.6	76.6	76.6	76.7	76.8	76.9	76.9	77.0
≥ 5000	62.6	68.8	73.6	76.2	76.5	77.1	77.2	77.2	77.2	77.3	77.4	77.5	77.5	77.6
≥ 4500	63.6	69.8	74.6	77.3	77.6	78.2	78.3	78.3	78.3	78.3	78.5	78.6	78.6	78.7
≥ 4000	63.8	70.1	74.9	77.7	78.0	78.6	78.7	78.7	78.7	78.8	78.9	79.0	79.0	79.1
≥ 3500	65.5	71.9	77.0	79.8	80.1	80.9	81.1	81.1	81.1	81.2	81.3	81.4	81.4	81.5
≥ 3000	66.6	73.0	78.3	81.1	81.4	82.3	82.4	82.4	82.4	82.5	82.7	82.8	82.8	82.8
≥ 2500	68.3	74.7	80.1	82.9	83.3	84.1	84.3	84.3	84.3	84.3	84.5	84.6	84.6	84.7
≥ 2000	70.1	76.5	82.0	85.1	85.4	86.3	86.4	86.4	86.4	86.5	86.7	86.8	86.8	86.8
≥ 1800	72.1	78.7	84.3	87.4	87.8	88.6	88.8	88.8	88.8	89.0	89.0	89.1	89.1	89.2
≥ 1500	72.9	79.6	85.2	88.3	88.7	89.5	89.8	89.8	89.8	90.0	90.0	90.1	90.1	90.2
≥ 1200	74.3	81.3	87.2	90.4	90.8	91.6	91.8	91.8	91.8	91.9	92.1	92.2	92.2	92.3
≥ 900	74.9	82.4	88.8	92.4	92.8	93.6	93.8	93.8	93.8	93.9	94.1	94.2	94.2	94.3
≥ 800	75.5	83.1	89.5	93.3	93.6	94.5	94.8	94.8	94.8	94.9	95.1	95.2	95.2	95.3
≥ 700	75.8	83.4	90.3	94.3	94.7	95.6	95.9	95.9	95.9	96.0	96.2	96.3	96.3	96.3
≥ 600	76.1	84.1	91.3	95.4	95.9	96.9	97.4	97.4	97.4	97.5	97.7	97.8	97.8	97.8
≥ 500	76.2	84.3	91.6	95.7	96.3	97.3	97.9	97.9	97.9	98.0	98.2	98.3	98.3	98.3
≥ 400	76.4	84.6	92.0	96.3	96.9	98.1	98.7	98.7	98.7	98.8	98.9	99.0	99.0	99.1
≥ 300	76.6	84.8	92.4	96.7	97.3	98.5	99.1	99.1	99.1	99.3	99.4	99.5	99.5	99.6
≥ 200	76.6	84.8	92.4	96.8	97.5	98.7	99.3	99.3	99.3	99.4	99.6	99.7	99.7	99.8
≥ 100	76.6	84.8	92.4	96.8	97.5	98.7	99.3	99.3	99.3	99.5	99.7	99.8	99.8	99.9
0	76.6	84.8	92.4	96.8	97.5	98.7	99.3	99.3	99.3	99.5	99.7	99.8	99.8	100.0

1200

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750 STATION

NORFOLK, VIRGINIA

73-77

YEARS

UCT MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING		58.7	59.4	59.4	60.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 20000		63.2	63.9	63.9	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 18000		63.2	63.9	63.9	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 16000		63.2	63.9	63.9	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 14000		63.2	63.9	63.9	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 12000		63.9	64.5	64.5	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 10000		65.8	66.5	66.5	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 9000		66.5	67.1	67.1	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 8000		74.2	75.5	75.5	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 7000		75.5	76.8	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 6000		76.1	77.4	77.4	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 5000		79.4	80.7	80.7	81.3	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 4500		81.3	82.6	82.6	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 4000		82.6	83.9	83.9	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 3500		83.9	85.2	85.2	85.8	86.5	87.1	87.1	87.1	87.1	87.1	87.1
≥ 3000		85.2	86.5	86.5	87.1	87.7	88.4	88.4	88.4	88.4	88.4	88.4
≥ 2500		85.2	86.5	86.5	87.1	87.7	88.4	88.4	88.4	88.4	88.4	88.4
≥ 2000		87.1	89.0	89.7	90.3	91.0	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1800		87.7	89.7	91.0	91.6	92.3	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1500		87.7	89.7	91.0	91.6	92.3	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1200		88.4	90.3	91.6	92.3	92.9	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1000		89.7	91.6	93.6	94.2	94.8	95.5	95.5	95.5	95.5	95.5	95.5
≥ 900		90.3	92.3	94.2	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 800		90.3	92.3	94.2	95.5	96.1	96.8	96.8	96.8	96.8	96.8	96.8
≥ 700		91.0	92.9	94.8	96.1	96.8	97.4	97.4	97.4	97.4	97.4	97.4
≥ 600		91.0	92.9	94.8	96.1	96.8	97.4	98.1	98.1	98.1	98.1	98.1
≥ 500		91.0	92.9	94.8	96.1	96.8	97.4	98.1	98.1	98.1	98.1	98.1
≥ 400		91.0	92.9	94.8	96.1	96.8	97.4	98.1	98.1	98.1	98.1	98.1
≥ 300		91.0	92.9	94.8	96.1	97.4	98.1	98.7	98.7	98.7	98.7	98.7
≥ 200		91.0	92.9	94.8	96.1	97.4	98.1	98.7	98.7	98.7	98.7	98.7
≥ 100		91.0	92.9	94.8	96.1	97.4	98.1	98.7	98.7	98.7	98.7	98.7
≥ 0		91.0	92.9	94.8	96.1	97.4	98.1	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA

73-77

OCT  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

04  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16	≥ ¼
NO CEILING		58.7	60.0	60.0	60.0	60.0	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 20000		61.3	63.2	63.2	63.2	63.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
18000		61.3	63.2	63.2	63.2	63.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
16000		61.3	63.2	63.2	63.2	63.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
14000		61.3	63.2	63.2	63.2	63.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
12000		62.6	64.5	64.5	64.5	64.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
10000		65.2	67.1	67.1	67.1	67.1	69.7	69.7	69.7	69.7	69.7	69.7	69.7
9000		65.2	67.1	67.1	67.1	67.1	69.7	69.7	69.7	69.7	69.7	69.7	69.7
8000		69.7	71.6	72.3	72.3	72.3	74.8	74.8	74.8	74.8	74.8	74.8	74.8
7000		70.3	72.3	72.9	72.9	73.6	75.5	75.5	75.5	75.5	75.5	75.5	75.5
6000		70.3	72.3	72.9	72.9	73.6	75.5	75.5	75.5	75.5	75.5	75.5	75.5
5000		71.6	73.6	74.8	74.8	75.5	77.4	77.4	77.4	77.4	77.4	77.4	77.4
4500		72.3	74.2	75.5	75.5	76.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
4000		73.6	76.1	77.4	77.4	78.1	80.0	80.0	80.0	80.0	80.0	80.0	80.0
3500		74.2	76.8	78.1	78.1	78.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3
3000		75.5	78.1	79.4	80.0	80.7	82.6	83.2	83.2	83.2	83.2	83.2	83.2
2500		76.1	78.7	80.0	80.7	81.3	83.2	83.9	83.9	83.9	83.9	83.9	83.9
2000		77.4	80.0	81.3	81.9	82.6	84.5	85.2	85.2	85.2	85.2	85.2	85.2
1800		78.1	80.7	81.9	82.6	83.2	85.2	85.8	85.8	85.8	85.8	85.8	85.8
1500		80.0	82.6	83.9	84.5	85.2	87.7	88.4	88.4	88.4	88.4	88.4	88.4
1200		80.7	83.9	85.2	85.8	86.5	89.0	89.7	89.7	89.7	89.7	89.7	89.7
1000		83.2	87.1	88.4	89.7	90.3	92.9	93.6	93.6	93.6	93.6	93.6	93.6
900		83.9	87.7	89.0	90.3	91.0	93.6	94.2	94.2	94.2	94.2	94.2	94.2
800		83.9	87.7	89.0	90.3	91.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8
700		83.9	87.7	90.3	91.6	92.3	94.8	95.5	95.5	95.5	95.5	95.5	95.5
600		83.9	88.4	91.0	92.3	92.9	95.5	96.1	96.1	96.1	96.1	96.1	96.1
500		83.9	88.4	91.0	92.3	93.6	96.1	96.8	96.8	96.8	96.8	96.8	96.8
400		83.9	88.4	91.0	92.3	93.6	96.1	97.4	97.4	97.4	97.4	97.4	97.4
300		84.5	89.0	91.6	93.6	94.2	96.8	98.1	98.1	98.1	98.1	98.1	98.1
200		84.5	89.0	91.6	93.6	94.2	96.8	98.1	98.1	98.1	98.1	98.1	98.1
100		84.5	89.0	91.6	93.6	94.2	96.8	98.1	98.1	98.1	98.1	98.1	98.1
0		84.5	89.0	91.6	93.6	94.2	96.8	98.1	98.1	98.1	98.1	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13750  
STATIONNORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

OCT  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)  
07  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														≥ 0
≥ 20000		46.5	52.3	54.2	55.5	56.1	56.1	56.1	56.1	56.1	56.8	56.8	56.8	56.8
≥ 18000		49.7	56.1	58.1	60.0	60.7	60.7	61.3	61.3	61.3	61.9	61.9	61.9	61.9
≥ 16000		49.7	56.1	58.1	60.0	60.7	60.7	61.3	61.3	61.3	61.9	61.9	61.9	61.9
≥ 14000		49.7	56.1	58.1	60.0	60.7	60.7	61.3	61.3	61.3	61.9	61.9	61.9	61.9
≥ 12000		50.3	56.8	58.7	60.7	61.3	61.3	61.9	61.9	61.9	62.6	62.6	62.6	62.6
≥ 10000		53.6	60.0	62.6	64.5	65.2	65.2	65.8	65.8	65.8	66.5	66.5	66.5	66.5
≥ 9000		54.2	60.7	63.2	65.2	65.8	65.8	66.5	66.5	66.5	67.1	67.1	67.1	67.1
≥ 8000		56.8	63.2	67.1	69.0	69.7	70.3	71.0	71.0	71.0	71.6	71.6	71.6	71.6
≥ 7000		58.1	64.5	69.0	71.6	72.3	72.9	73.6	73.6	73.6	74.2	74.2	74.2	74.2
≥ 6000		58.7	65.8	70.3	72.9	73.6	74.2	74.8	74.8	74.8	75.5	75.5	75.5	75.5
≥ 5000		58.7	65.8	71.0	73.6	74.2	74.8	75.5	75.5	75.5	76.1	76.1	76.1	76.1
≥ 4500		58.7	65.8	71.0	73.6	74.2	74.8	75.5	75.5	75.5	76.1	76.1	76.1	76.1
≥ 4000		61.3	69.7	74.8	77.4	78.1	79.4	80.0	80.0	80.0	80.7	80.7	80.7	80.7
≥ 3500		62.6	71.0	76.1	78.7	79.4	80.7	81.3	81.3	81.3	81.9	81.9	81.9	81.9
≥ 3000		63.9	72.9	78.1	80.7	81.3	82.6	83.2	83.2	83.2	83.9	83.9	83.9	83.9
≥ 2500		64.5	73.6	78.7	81.3	81.9	83.2	83.9	83.9	83.9	84.5	84.5	84.5	84.5
≥ 2000		66.5	77.4	83.2	85.8	86.5	87.7	88.4	88.4	88.4	89.0	89.0	89.0	89.0
≥ 1800		66.5	77.4	83.2	85.8	86.5	87.7	88.4	88.4	88.4	89.0	89.0	89.0	89.0
≥ 1500		66.5	77.4	83.2	85.8	86.5	87.7	88.4	88.4	88.4	89.0	89.0	89.0	89.0
≥ 1200		67.1	78.1	84.5	87.7	88.4	89.0	89.7	89.7	89.7	90.3	90.3	90.3	90.3
≥ 1000		67.1	78.1	84.5	87.7	88.4	89.0	89.7	89.7	89.7	90.3	90.3	90.3	90.3
≥ 900		67.1	78.1	84.5	87.7	88.4	89.0	89.7	89.7	89.7	90.3	90.3	90.3	90.3
≥ 800		68.4	79.4	85.8	89.7	90.3	91.6	92.3	92.3	92.3	92.9	92.9	92.9	92.9
≥ 700		69.0	80.7	87.7	91.0	91.6	92.9	93.6	93.6	93.6	94.2	94.2	94.2	94.2
≥ 600		69.0	80.7	87.7	91.6	92.3	94.2	94.8	94.8	94.8	95.5	95.5	95.5	95.5
≥ 500		69.0	80.7	87.7	92.3	92.9	95.5	96.1	96.1	96.1	97.4	97.4	97.4	97.4
≥ 400		69.0	80.7	87.7	92.3	92.9	96.1	96.8	96.8	96.8	98.1	98.1	98.1	98.1
≥ 300		69.7	81.3	88.4	92.9	93.6	96.8	97.4	97.4	98.1	98.7	98.7	98.7	98.7
≥ 200		69.7	81.3	88.4	92.9	93.6	96.8	97.4	97.4	98.1	98.7	98.7	98.7	98.7
≥ 100		69.7	81.3	88.4	92.9	93.6	96.8	97.4	97.4	98.1	98.7	98.7	98.7	98.7
0		69.7	81.3	88.4	92.9	93.6	96.8	97.4	97.4	98.1	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION  
13750

STATION NAME  
NORFOLK, VIRGINIA

73-77

YEARS

MONTH  
OCT

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)  
10

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING												
≥ 20000		51.6	54.2	54.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
18000		57.4	60.0	61.3	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9
16000		57.4	60.0	61.3	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9
14000		57.4	60.0	61.3	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9
12000		57.4	60.0	61.3	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9
10000		58.1	60.7	61.9	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5
9000		61.3	63.9	65.8	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7
8000		61.3	63.9	65.8	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7
7000		65.8	68.4	70.3	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2
6000		66.5	69.0	71.0	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5
5000		66.5	69.0	71.0	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5
4500		67.7	70.3	72.3	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8
4000		68.4	71.0	72.9	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4
3500		71.6	74.2	76.1	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7
3000		71.6	74.2	76.1	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7
2500		74.2	76.8	79.4	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83.9
2000		74.8	77.4	80.0	83.9	84.5	84.5	84.5	84.5	84.5	84.5	84.5
1800		76.1	78.7	81.3	85.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5
1500		77.4	80.0	82.6	86.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7
1200		79.4	82.6	86.5	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6
1000		80.7	84.5	89.0	92.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2
900		80.7	84.5	89.0	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8
800		80.7	84.5	89.0	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8
700		81.9	85.8	90.3	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1
600		82.6	87.1	92.3	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
500		82.6	87.1	92.3	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
400		82.6	87.7	92.9	96.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4
300		82.6	87.7	92.9	96.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4
200		82.6	87.7	92.9	96.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4
100		82.6	87.7	92.9	96.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0		82.6	87.7	92.9	96.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

135

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

007  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		50.3	51.6	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 18000		58.7	60.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 16000		58.7	60.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 14000		58.7	60.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 12000		59.4	60.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 10000		62.6	63.9	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 9000		63.9	65.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 8000		69.7	71.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 7000		71.0	72.3	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 6000		71.0	72.3	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 5000		71.6	72.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 4500		71.6	72.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 4000		74.2	75.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 3500		74.8	76.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 3000		77.4	79.4	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 2500		80.0	81.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 2000		83.2	85.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1800		83.2	85.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1500		84.5	87.1	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1200		85.2	88.4	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1000		85.2	89.7	92.9	93.6	93.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8
≥ 900		85.2	89.7	92.9	93.6	93.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8
≥ 800		85.2	89.7	93.6	94.8	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 700		85.2	89.7	93.6	94.8	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 600		85.2	89.7	93.6	94.8	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 500		85.2	89.7	94.2	95.5	95.5	96.1	96.8	96.8	96.8	96.8	96.8	96.8
≥ 400		85.2	89.7	94.2	95.5	95.5	96.1	96.8	96.8	96.8	96.8	96.8	96.8
≥ 300		85.2	89.7	94.2	95.5	95.5	96.1	96.8	96.8	96.8	96.8	96.8	96.8
≥ 200		85.2	89.7	94.2	95.5	95.5	96.1	96.8	96.8	96.8	96.8	96.8	96.8
≥ 100		85.2	89.7	94.2	95.5	95.5	96.1	96.8	96.8	96.8	96.8	96.8	96.8
0		85.2	89.7	94.2	95.5	95.5	96.1	96.8	96.8	96.8	96.8	96.8	96.8

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

OCT  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		52.9	52.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 18000		60.0	60.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 16000		60.0	60.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 14000		60.0	60.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 12000		60.7	60.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 10000		63.9	63.9	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 9000		64.5	64.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 8000		70.3	71.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 7000		72.3	72.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 6000		72.9	73.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 5000		75.5	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 4500		78.1	78.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 4000		79.4	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3500		80.0	80.7	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 3000		81.9	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 2500		84.5	85.8	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 2000		85.2	87.1	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1800		85.2	87.1	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1500		85.8	87.7	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1200		87.7	89.7	91.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1000		88.4	91.0	92.3	93.6	93.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 900		88.4	91.0	92.3	93.6	93.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 800		88.4	91.0	92.3	93.6	93.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 700		89.0	91.6	92.9	94.8	94.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 600		89.0	91.6	92.9	94.8	94.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 500		89.0	91.6	92.9	94.8	94.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 400		89.0	91.6	92.9	94.8	94.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 300		89.0	91.6	92.9	94.8	94.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 200		89.0	91.6	92.9	94.8	94.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 100		89.0	91.6	92.9	94.8	94.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
0		89.0	91.6	92.9	94.8	94.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS

155



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

OCT  
NORTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)19  
HOURS (L. S. T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		56.1	56.8	56.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 20000		62.6	63.2	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 18000		62.6	63.2	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 16000		62.6	63.2	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 14000		62.6	63.2	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 12000		63.2	63.9	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 10000		65.2	65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 9000		65.2	65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 8000		74.2	74.8	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 7000		75.5	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 6000		75.5	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 5000		76.8	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 4500		78.1	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 4000		80.0	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3500		80.0	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3000		82.6	83.9	83.9	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 2500		83.2	84.5	84.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 2000		86.5	87.7	87.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1800		88.4	89.7	89.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1500		89.7	91.0	91.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1200		90.3	91.6	91.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1000		91.0	92.3	92.3	93.6	93.6	94.8	95.5	96.1	96.1	96.1	96.1	96.1
≥ 900		91.6	92.9	92.9	94.2	94.2	95.5	96.1	97.4	97.4	97.4	97.4	97.4
≥ 800		91.6	92.9	92.9	94.8	94.8	96.8	97.4	98.7	98.7	98.7	98.7	98.7
≥ 700		91.6	92.9	92.9	94.8	94.8	96.8	97.4	98.7	98.7	98.7	98.7	98.7
≥ 600		91.6	92.9	92.9	94.8	94.8	96.8	97.4	98.7	98.7	98.7	98.7	98.7
≥ 500		91.6	92.9	92.9	94.8	94.8	96.8	97.4	98.7	98.7	98.7	98.7	98.7
≥ 400		91.6	92.9	92.9	94.8	94.8	96.8	97.4	98.7	98.7	98.7	98.7	98.7
≥ 300		91.6	92.9	92.9	94.8	94.8	96.8	97.4	98.7	98.7	98.7	98.7	98.7
≥ 200		91.6	92.9	92.9	94.8	94.8	96.8	97.4	98.7	98.7	98.7	98.7	98.7
≥ 100		91.6	92.9	92.9	94.8	94.8	96.8	97.4	98.7	98.7	98.7	98.7	98.7
0		91.6	92.9	92.9	94.8	94.8	96.8	97.4	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750

NORFOLK, VIRGINIA

73-77

OCT

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING												
≥ 20000		59.4	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
18000		63.2	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
16000		63.2	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
14000		63.2	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
12000		63.2	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
10000		63.2	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
9000		64.5	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
8000		68.4	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
7000		68.4	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
6000		74.2	75.5	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
5000		75.5	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
4000		75.5	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
3500		77.4	78.7	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
3000		78.7	80.0	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
2500		81.3	82.6	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
2000		81.3	82.6	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
1800		84.5	85.8	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
1500		84.5	85.8	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
1200		84.5	85.8	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
1000		89.0	91.0	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
900		89.7	91.6	92.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
800		89.7	91.6	92.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
700		89.7	91.6	92.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
600		90.3	92.3	93.6	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
500		90.3	92.3	93.6	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
400		90.3	92.3	93.6	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
300		91.0	93.6	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
200		91.0	93.6	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
100		91.6	94.2	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0		91.6	94.2	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA

73-77

YEARS

OCT  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING											
≥ 20000		54.3	56.0	56.7	57.3	57.4	57.7	57.7	57.7	57.7	57.7
≥ 18000		59.5	61.4	62.2	62.8	63.1	63.3	63.4	63.4	63.4	63.5
≥ 16000		59.5	61.4	62.2	62.8	63.1	63.3	63.4	63.4	63.4	63.5
≥ 14000		59.5	61.4	62.2	62.8	63.1	63.3	63.4	63.4	63.4	63.5
≥ 12000		59.5	61.4	62.2	62.8	63.1	63.3	63.4	63.4	63.4	63.5
≥ 10000		60.3	62.2	63.0	63.6	63.9	64.1	64.2	64.2	64.2	64.3
≥ 9000		63.2	65.1	66.1	66.9	67.2	67.4	67.5	67.5	67.5	67.6
≥ 8000		63.6	65.5	66.5	67.3	67.6	67.8	67.9	67.9	68.0	68.0
≥ 7000		69.4	71.4	72.6	73.5	73.8	74.1	74.2	74.2	74.3	74.4
≥ 6000		70.6	72.6	73.9	74.9	75.2	75.6	75.7	75.7	75.7	75.8
≥ 5000		70.8	72.9	74.2	75.2	75.6	75.9	76.0	76.0	76.1	76.1
≥ 4500		72.3	74.4	75.9	76.9	77.3	77.6	77.7	77.7	77.7	77.8
≥ 4000		73.4	75.5	76.9	78.0	78.3	78.6	78.7	78.7	78.8	78.9
≥ 3500		75.5	77.8	79.3	80.3	80.7	81.1	81.2	81.2	81.3	81.4
≥ 3000		76.1	78.5	80.0	81.1	81.4	81.9	82.0	82.0	82.1	82.2
≥ 2500		78.2	80.7	82.3	83.5	83.8	84.3	84.4	84.4	84.5	84.6
≥ 2000		79.1	81.9	83.5	84.8	85.1	85.6	85.7	85.7	85.8	85.9
≥ 1800		81.4	84.5	86.3	87.7	88.1	88.6	88.7	88.7	88.8	88.9
≥ 1500		82.0	85.2	87.1	88.5	88.9	89.4	89.5	89.5	89.6	89.7
≥ 1200		82.9	86.2	88.3	89.8	90.2	90.8	91.0	91.0	91.1	91.1
≥ 1000		83.7	87.3	89.8	91.4	91.9	92.5	92.7	92.7	92.7	92.8
≥ 900		84.4	88.3	91.0	92.7	93.4	94.3	94.4	94.4	94.5	94.6
≥ 800		84.7	88.6	91.2	93.0	93.6	94.6	94.8	94.8	94.8	94.9
≥ 700		85.0	88.9	91.8	94.0	94.6	95.7	95.9	95.9	96.0	96.1
≥ 600		85.4	89.5	92.7	94.9	95.6	96.7	96.9	96.9	96.9	97.0
≥ 500		85.4	89.6	92.9	95.1	95.7	97.0	97.3	97.3	97.3	97.4
≥ 400		85.5	89.8	93.2	95.6	96.5	97.8	98.1	98.1	98.2	98.4
≥ 300		85.5	89.8	93.2	95.6	96.5	98.0	98.3	98.3	98.4	98.6
≥ 200		85.7	89.9	93.3	95.7	96.8	98.3	98.6	98.6	98.7	99.1
≥ 100		85.7	89.9	93.3	95.7	96.8	98.3	98.6	98.6	98.7	99.6
0		85.7	89.9	93.3	95.7	96.8	98.3	98.6	98.6	98.9	99.8
		85.7	89.9	93.3	95.7	96.8	98.3	98.6	98.6	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS

1240



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

NOV  
MONTH

01  
HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING												
≥ 20000		62.7	63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 18000		64.0	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 16000		64.0	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 14000		64.0	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 12000		66.0	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 10000		68.7	69.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 9000		70.0	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 8000		74.0	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 7000		78.0	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 6000		78.0	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 5000		80.0	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 4500		80.7	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 4000		82.7	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 3500		84.7	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 3000		85.3	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 2500		87.3	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 2000		88.7	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1800		90.0	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1500		91.3	92.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1200		92.0	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1000		92.0	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 900		92.0	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 800		92.0	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 700		92.0	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 600		92.0	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 500		92.0	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 400		92.0	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 300		92.0	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 200		92.0	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 100		92.0	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
0		92.0	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION  
13750

NORFOLK, VIRGINIA

73-77

TEARS

NOV  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING		63.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 20000		64.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
18000		64.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
16000		64.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
14000		64.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
12000		64.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
10000		68.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
9000		68.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
8000		71.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
7000		72.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
6000		73.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
5000		73.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
4500		74.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
4000		75.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
3500		77.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
3000		78.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
2500		80.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
2000		84.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
1800		85.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
1500		85.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
1200		85.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
1000		85.3	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
900		86.0	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
800		87.3	92.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
700		88.0	93.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
600		88.0	93.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
500		88.0	94.0	95.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
400		88.0	94.0	95.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
300		88.0	94.7	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
200		88.0	94.7	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
100		88.0	94.7	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
0		88.0	94.7	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3

TOTAL NUMBER OF OBSERVATIONS 150

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

NOV  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING		53.3	56.7	59.3	60.7	60.7	60.7	60.7	61.3	61.3	61.3	61.3
≥ 20000		58.0	62.0	65.3	66.7	66.7	66.7	66.7	67.3	67.3	67.3	67.3
18000		58.0	62.0	65.3	66.7	66.7	66.7	66.7	67.3	67.3	67.3	67.3
16000		58.0	62.0	65.3	66.7	66.7	66.7	66.7	67.3	67.3	67.3	67.3
14000		58.0	62.0	65.3	66.7	66.7	66.7	66.7	67.3	67.3	67.3	67.3
12000		58.0	62.0	65.3	66.7	66.7	66.7	66.7	67.3	67.3	67.3	67.3
10000		61.3	65.3	69.3	70.7	70.7	71.3	71.3	72.0	72.0	72.0	72.0
9000		61.3	65.3	69.3	70.7	70.7	71.3	71.3	72.0	72.0	72.0	72.0
8000		66.0	70.0	74.0	75.3	75.3	76.0	76.0	76.7	76.7	76.7	76.7
7000		67.3	72.0	76.0	77.3	77.3	78.0	78.0	78.7	78.7	78.7	78.7
6000		68.0	72.7	76.7	78.0	78.0	78.7	78.7	79.3	79.3	79.3	79.3
5000		68.0	72.7	76.7	78.0	78.0	78.7	78.7	79.3	79.3	79.3	79.3
4500		68.0	72.7	76.7	78.0	78.0	78.7	78.7	79.3	79.3	79.3	79.3
4000		69.3	74.7	78.7	80.0	80.0	80.7	80.7	81.3	81.3	81.3	81.3
3500		69.3	74.7	78.7	80.0	80.0	80.7	80.7	81.3	81.3	81.3	81.3
3000		70.7	76.0	80.0	81.3	81.3	82.7	82.7	83.3	83.3	83.3	83.3
2500		70.7	76.0	80.0	82.0	82.0	83.3	83.3	84.0	84.0	84.0	84.0
2000		72.0	77.3	81.3	83.3	83.3	84.7	84.7	85.3	85.3	85.3	85.3
1800		72.0	77.3	81.3	83.3	83.3	84.7	84.7	85.3	85.3	85.3	85.3
1500		73.3	78.7	82.7	84.7	84.7	86.0	86.0	86.7	86.7	86.7	86.7
1200		74.0	80.0	84.0	86.0	86.0	87.3	87.3	88.0	88.0	88.0	88.0
1000		74.0	80.0	84.0	86.0	86.0	87.3	87.3	88.0	88.0	88.0	88.0
900		74.0	80.0	84.0	86.0	86.0	87.3	87.3	88.0	88.0	88.0	88.0
800		75.3	81.3	85.3	88.0	88.0	89.3	89.3	90.0	90.0	90.0	90.0
700		76.0	82.0	86.0	89.3	89.3	90.7	90.7	91.3	91.3	91.3	91.3
600		76.0	82.0	86.0	89.3	89.3	90.7	90.7	91.3	91.3	91.3	91.3
500		76.0	82.0	86.0	89.3	89.3	90.7	90.7	91.3	91.3	91.3	91.3
400		76.0	82.0	86.0	89.3	89.3	90.7	90.7	91.3	91.3	91.3	91.3
300		76.0	82.0	86.0	89.3	89.3	90.7	90.7	91.3	91.3	91.3	91.3
200		76.0	82.0	86.0	89.3	89.3	90.7	90.7	91.3	91.3	91.3	91.3
100		76.0	82.0	86.0	89.3	89.3	90.7	90.7	91.3	91.3	91.3	91.3
0		76.0	82.0	86.0	89.3	89.3	90.7	90.7	91.3	91.3	91.3	91.3

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

NDV  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING												
≥ 20000		56.0	60.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 18000		60.0	64.0	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 16000		60.0	64.0	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 14000		60.0	64.0	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 12000		60.0	64.0	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 10000		62.0	66.0	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 8000		62.0	66.0	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 7000		66.0	70.7	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 6000		67.3	72.7	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 5000		68.0	73.3	76.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 4500		68.0	74.0	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4000		68.7	74.7	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 3500		70.0	76.0	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 3000		70.0	76.0	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 2500		71.3	78.7	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 2000		72.7	80.0	84.0	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 1800		73.3	80.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 1500		73.3	81.3	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 1200		74.0	83.3	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 1000		74.0	83.3	88.0	89.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 900		74.0	83.3	88.0	90.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 800		74.0	83.3	88.0	90.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 700		74.7	84.0	88.7	90.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 600		74.7	84.7	90.0	92.0	93.3	94.0	94.0	94.0	94.0	94.0	94.0
≥ 500		74.7	84.7	90.0	92.0	94.7	96.0	96.0	96.0	96.0	96.0	96.0
≥ 400		74.7	84.7	90.0	92.0	94.7	96.0	96.7	96.7	96.7	96.7	96.7
≥ 300		74.7	84.7	90.0	92.0	94.7	96.0	96.7	96.7	96.7	96.7	96.7
≥ 200		74.7	84.7	90.0	92.0	94.7	96.0	96.7	96.7	96.7	96.7	96.7
≥ 100		74.7	84.7	90.0	92.0	94.7	96.0	96.7	96.7	96.7	96.7	96.7
0		74.7	84.7	90.0	92.0	94.7	96.0	96.7	96.7	96.7	96.7	96.7

TOTAL NUMBER OF OBSERVATIONS

150



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

NOV  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING											
≥ 20000		56.7	57.3	57.3	57.3	57.3	58.0	58.0	58.0	58.0	58.0
At 18000		63.3	64.0	64.0	64.0	64.0	64.7	64.7	64.7	64.7	64.7
At 16000		63.3	64.0	64.0	64.0	64.0	64.7	64.7	64.7	64.7	64.7
At 14000		63.3	64.7	64.7	64.7	64.7	65.3	65.3	65.3	65.3	65.3
At 12000		63.3	64.7	64.7	64.7	64.7	65.3	65.3	65.3	65.3	65.3
At 10000		69.3	71.3	71.3	71.3	71.3	72.0	72.0	72.0	72.0	72.0
At 9000		69.3	71.3	71.3	71.3	71.3	72.0	72.0	72.0	72.0	72.0
At 8000		72.0	74.0	74.0	74.0	74.0	74.7	74.7	74.7	74.7	74.7
At 7000		72.7	74.7	74.7	75.3	75.3	76.0	76.0	76.0	76.0	76.0
At 6000		73.3	75.3	75.3	76.0	76.0	76.7	76.7	76.7	76.7	76.7
At 5000		74.0	76.0	76.0	76.7	76.7	77.3	77.3	77.3	77.3	77.3
At 4500		74.0	76.0	76.0	76.7	76.7	77.3	77.3	77.3	77.3	77.3
At 4000		75.3	77.3	77.3	78.0	78.0	78.7	78.7	78.7	78.7	78.7
At 3500		75.7	78.7	78.7	80.0	80.0	80.7	80.7	80.7	80.7	80.7
At 3000		79.3	81.3	81.3	82.7	82.7	83.3	83.3	83.3	83.3	83.3
At 2500		80.0	83.3	83.3	84.7	84.7	85.3	85.3	85.3	85.3	85.3
At 2000		81.3	84.7	84.7	86.7	86.7	87.3	87.3	87.3	87.3	87.3
At 1800		81.3	84.7	84.7	86.7	86.7	87.3	87.3	87.3	87.3	87.3
At 1500		81.3	84.7	85.3	87.3	87.3	88.0	88.0	88.0	88.0	88.0
At 1200		82.0	86.0	86.7	88.7	88.7	89.3	89.3	89.3	89.3	89.3
At 1000		82.0	87.3	88.0	90.0	90.0	90.7	90.7	90.7	90.7	90.7
At 900		82.7	88.0	88.7	90.7	90.7	92.0	92.0	92.0	92.0	92.0
At 800		82.7	88.0	89.3	92.0	92.0	93.3	93.3	93.3	93.3	93.3
At 700		83.3	88.7	90.0	93.3	93.3	94.7	94.7	94.7	94.7	94.7
At 600		83.3	88.7	90.7	94.7	94.7	96.0	96.0	96.0	96.0	96.0
At 500		83.3	88.7	90.7	94.7	94.7	96.7	96.7	96.7	96.7	96.7
At 400		83.3	88.7	90.7	94.7	94.7	97.3	97.3	97.3	97.3	97.3
At 300		83.3	88.7	90.7	94.7	94.7	97.3	97.3	97.3	97.3	97.3
At 200		83.3	88.7	90.7	94.7	94.7	97.3	97.3	97.3	97.3	97.3
At 100		83.3	88.7	90.7	94.7	94.7	97.3	97.3	97.3	97.3	97.3
0		83.3	88.7	90.7	94.7	94.7	97.3	97.3	97.3	97.3	97.3

TOTAL NUMBER OF OBSERVATIONS 150

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NOV  
MONTH

16

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING											
≥ 20000		56.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 18000		60.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 16000		60.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 14000		61.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 12000		64.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 10000		67.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 9000		68.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 8000		72.7	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 7000		72.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 6000		72.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 5000		73.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4500		74.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 4000		77.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3500		77.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3000		80.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 2500		82.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 2000		84.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1800		85.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1500		85.3	90.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1200		85.3	91.3	92.7	92.7	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1000		85.3	92.0	93.3	93.3	94.0	94.0	94.0	94.0	94.0	94.0
≥ 900		85.3	92.0	93.3	94.0	94.7	94.7	94.7	94.7	94.7	94.7
≥ 800		85.3	92.0	93.3	94.0	94.7	94.7	94.7	94.7	94.7	94.7
≥ 700		85.3	92.0	93.3	94.7	95.3	95.3	96.0	96.0	96.0	96.0
≥ 600		85.3	92.0	93.3	94.7	96.0	96.7	97.3	97.3	97.3	97.3
≥ 500		85.3	92.0	93.3	94.7	96.7	97.3	98.0	98.0	98.0	98.0
≥ 400		85.3	92.0	93.3	94.7	97.3	98.0	98.7	98.7	98.7	98.7
≥ 300		85.3	92.0	93.3	94.7	97.3	98.0	98.7	98.7	98.7	98.7
≥ 200		85.3	92.0	93.3	94.7	97.3	98.0	98.7	98.7	98.7	98.7
≥ 100		85.3	92.0	93.3	94.7	97.3	98.0	98.7	98.7	98.7	98.7
0		85.3	92.0	93.3	94.7	97.3	98.0	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION  
13750

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

NOV  
MONTH

19  
HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING												
≥ 20000		61.3	62.0	62.0	62.7	62.7	62.7	62.7	62.7	62.7	63.3	63.3
≥ 18000		64.0	64.7	64.7	65.3	65.3	65.3	65.3	65.3	65.3	66.0	66.0
≥ 16000		64.0	64.7	64.7	65.3	65.3	65.3	65.3	65.3	65.3	66.0	66.0
≥ 14000		64.7	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.7	66.7
≥ 12000		66.0	66.7	66.7	67.3	67.3	67.3	67.3	67.3	67.3	68.0	68.0
≥ 10000		70.0	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.7	72.7
≥ 9000		70.7	72.0	72.0	72.7	72.7	72.7	72.7	72.7	72.7	73.3	73.3
≥ 8000		76.7	78.0	78.0	78.7	78.7	78.7	78.7	78.7	78.7	79.3	79.3
≥ 7000		76.7	78.0	78.0	78.7	78.7	78.7	78.7	78.7	78.7	79.3	79.3
≥ 6000		76.7	78.0	78.0	78.7	78.7	78.7	78.7	78.7	78.7	79.3	79.3
≥ 5000		77.3	78.7	78.7	79.3	79.3	79.3	79.3	79.3	79.3	80.0	80.0
≥ 4500		77.3	78.7	78.7	79.3	79.3	79.3	79.3	79.3	79.3	80.0	80.0
≥ 4000		79.3	82.0	82.0	82.7	82.7	82.7	82.7	82.7	82.7	83.3	83.3
≥ 3500		79.3	82.0	82.0	82.7	82.7	82.7	82.7	82.7	82.7	83.3	83.3
≥ 3000		79.3	83.3	83.3	84.7	84.7	84.7	84.7	84.7	84.7	85.3	85.3
≥ 2500		81.3	85.3	85.3	86.7	86.7	86.7	86.7	86.7	86.7	87.3	87.3
≥ 2000		83.3	87.3	88.0	89.3	89.3	89.3	89.3	89.3	89.3	90.0	90.0
≥ 1800		83.3	87.3	88.0	89.3	89.3	89.3	89.3	89.3	89.3	90.0	90.0
≥ 1500		84.0	88.0	88.7	90.0	90.0	90.0	90.0	90.0	90.0	90.7	90.7
≥ 1200		84.0	88.7	90.0	91.3	91.3	91.3	91.3	91.3	91.3	92.0	92.0
≥ 1000		84.7	90.0	91.3	92.7	92.7	92.7	92.7	92.7	92.7	93.3	93.3
≥ 900		84.7	90.0	91.3	92.7	92.7	92.7	92.7	92.7	92.7	93.3	93.3
≥ 800		84.7	90.0	92.0	93.3	93.3	93.3	93.3	93.3	93.3	94.0	94.0
≥ 700		85.3	90.7	93.3	94.7	94.7	94.7	94.7	94.7	94.7	95.3	95.3
≥ 600		85.3	90.7	94.0	95.3	95.3	95.3	95.3	95.3	95.3	96.0	96.0
≥ 500		85.3	90.7	94.0	95.3	95.3	95.3	95.3	95.3	95.3	96.7	96.7
≥ 400		85.3	90.7	94.0	95.3	95.3	95.3	95.3	95.3	95.3	96.7	96.7
≥ 300		85.3	90.7	94.0	95.3	95.3	95.3	95.3	95.3	95.3	96.7	96.7
≥ 200		85.3	90.7	94.0	95.3	95.3	95.3	95.3	95.3	95.3	96.7	96.7
≥ 100		85.3	90.7	94.0	95.3	95.3	95.3	95.3	95.3	95.3	96.7	96.7
0		85.3	90.7	94.0	95.3	95.3	95.3	95.3	95.3	95.3	96.7	96.7

TOTAL NUMBER OF OBSERVATIONS

150



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

NOV  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 20000		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
18000		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
16000		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
14000		64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
12000		66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
10000		71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
9000		71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
8000		78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
7000		78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
6000		78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
5000		78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
4500		78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
4000		80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
3500		84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
3000		86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
2500		88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
2000		89.3	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.7	90.7
1800		90.7	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	92.0	92.0
1500		90.7	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	92.0	92.0
1200		90.7	90.7	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.7	92.7
1000		90.7	90.7	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.7	92.7
900		90.7	91.3	92.7	93.3	93.3	93.3	93.3	93.3	93.3	94.0	94.0
800		90.7	91.3	92.7	93.3	93.3	93.3	93.3	93.3	93.3	94.0	94.0
700		90.7	91.3	92.7	93.3	93.3	93.3	93.3	93.3	93.3	94.0	94.0
600		91.3	92.0	93.3	94.0	94.0	94.7	94.7	94.7	94.7	95.3	95.3
500		91.3	92.0	93.3	94.7	94.7	95.3	95.3	95.3	95.3	96.0	96.0
400		91.3	92.0	93.3	94.7	94.7	95.3	95.3	95.3	95.3	96.0	96.0
300		91.3	92.0	93.3	96.0	96.0	97.3	98.0	98.0	98.7	99.3	99.3
200		91.3	92.0	93.3	96.0	96.0	97.3	98.0	98.0	98.7	99.3	99.3
100		91.3	92.0	93.3	96.0	96.0	97.3	98.0	98.0	98.7	99.3	99.3
0		91.3	92.0	93.3	96.0	96.0	97.3	98.0	98.0	98.7	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEAR

NOV  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
MOORE (LST.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														
≥ 20000		58.7	60.3	60.9	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.4	61.4
≥ 18000		62.3	64.0	64.7	64.9	64.9	65.0	65.0	65.1	65.1	65.1	65.1	65.2	65.2
≥ 16000		62.3	64.0	64.7	64.9	64.9	65.0	65.0	65.1	65.1	65.1	65.1	65.2	65.2
≥ 14000		62.4	64.3	65.0	65.3	65.3	65.3	65.3	65.4	65.4	65.4	65.4	65.5	65.5
≥ 12000		63.7	65.6	66.3	66.6	66.6	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8
≥ 10000		67.3	69.3	70.3	70.6	70.6	70.8	70.8	70.8	70.8	70.8	70.9	70.9	70.9
≥ 9000		67.7	69.8	70.7	71.0	71.0	71.2	71.2	71.3	71.3	71.3	71.3	71.3	71.4
≥ 8000		72.1	74.3	75.3	75.6	75.6	75.8	75.8	75.8	75.8	75.8	75.9	75.9	76.0
≥ 7000		73.3	75.8	76.7	77.1	77.1	77.3	77.3	77.3	77.3	77.3	77.4	77.4	77.5
≥ 6000		73.6	76.1	77.0	77.4	77.4	77.6	77.6	77.7	77.7	77.7	77.8	77.8	77.8
≥ 5000		74.1	76.7	77.6	78.0	78.0	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.4
≥ 4500		74.4	77.0	77.9	78.3	78.3	78.5	78.5	78.6	78.6	78.6	78.7	78.7	78.8
≥ 4000		76.3	79.2	80.1	80.5	80.5	80.7	80.7	80.8	80.8	80.8	80.8	80.8	80.9
≥ 3500		77.3	80.3	81.2	81.7	81.7	81.8	81.8	81.9	81.9	81.9	82.0	82.0	82.1
≥ 3000		78.8	82.1	83.0	83.6	83.6	83.8	83.8	83.9	83.9	83.9	84.0	84.0	84.1
≥ 2500		80.3	83.8	84.8	85.5	85.5	85.6	85.6	85.8	85.8	85.8	85.9	85.9	86.0
≥ 2000		82.1	85.6	86.8	87.6	87.6	87.8	87.8	87.9	87.9	87.9	88.1	88.1	88.2
≥ 1800		82.7	86.2	87.5	88.3	88.3	88.5	88.5	88.6	88.6	88.6	88.8	88.8	88.8
≥ 1500		83.1	86.8	88.3	89.1	89.1	89.3	89.3	89.4	89.4	89.4	89.6	89.6	89.7
≥ 1200		83.4	87.6	89.3	90.1	90.1	90.4	90.4	90.5	90.5	90.5	90.7	90.7	90.8
≥ 1000		83.5	88.2	89.9	90.8	90.8	91.1	91.1	91.3	91.3	91.4	91.6	91.6	91.7
≥ 900		83.7	88.4	90.3	91.3	91.3	91.6	91.6	92.0	92.0	92.0	92.2	92.2	92.3
≥ 800		84.0	88.9	91.0	92.3	92.3	92.5	92.5	92.8	92.8	92.9	93.1	93.1	93.2
≥ 700		84.4	89.4	91.6	93.1	93.1	93.3	93.3	93.8	93.9	93.9	94.1	94.1	94.2
≥ 600		84.5	89.7	92.2	93.8	93.8	94.1	94.1	94.9	95.0	95.1	95.3	95.3	95.3
≥ 500		84.5	89.8	92.3	94.1	94.1	94.8	94.8	95.9	96.0	96.1	96.3	96.3	96.3
≥ 400		84.5	89.8	92.3	94.1	94.1	94.9	94.9	96.5	96.6	96.8	97.1	97.1	97.3
≥ 300		84.5	89.8	92.3	94.3	94.3	95.3	95.3	97.3	97.3	98.2	98.4	98.4	98.6
≥ 200		84.5	89.8	92.3	94.3	94.3	95.3	95.3	97.3	97.4	98.3	98.8	98.8	99.1
≥ 100		84.5	89.8	92.3	94.3	94.3	95.3	95.3	97.3	97.4	98.3	98.8	98.9	99.5
≥ 0		84.5	89.8	92.3	94.3	94.3	95.3	95.3	97.3	97.4	98.3	98.8	99.0	99.8

TOTAL NUMBER OF OBSERVATIONS

1200

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

DEC  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		54.2	54.2	54.2	54.2	54.2	54.2	54.8	54.8	54.8	54.8	54.8	54.8
≥ 18000		57.4	57.4	57.4	57.4	57.4	57.4	58.1	58.1	58.1	58.1	58.1	58.1
≥ 16000		57.4	57.4	57.4	57.4	57.4	57.4	58.1	58.1	58.1	58.1	58.1	58.1
≥ 14000		58.1	58.1	58.1	58.1	58.1	58.1	58.7	58.7	58.7	58.7	58.7	58.7
≥ 12000		58.7	58.7	58.7	58.7	58.7	58.7	59.4	59.4	59.4	59.4	59.4	59.4
≥ 10000		63.9	63.9	63.9	63.9	63.9	63.9	64.5	64.5	64.5	64.5	64.5	64.5
≥ 9000		63.9	63.9	63.9	63.9	63.9	63.9	64.5	64.5	64.5	64.5	64.5	64.5
≥ 8000		70.3	70.3	70.3	70.3	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0
≥ 7000		72.3	72.3	72.3	72.3	72.3	72.3	72.9	72.9	72.9	72.9	72.9	72.9
≥ 6000		72.3	72.3	72.3	72.3	72.3	72.3	72.9	72.9	72.9	72.9	72.9	72.9
≥ 5000		72.9	72.9	72.9	72.9	72.9	72.9	73.6	73.6	73.6	73.6	73.6	73.6
≥ 4500		76.1	76.1	76.1	76.1	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8
≥ 4000		78.1	78.1	78.1	78.1	78.1	78.1	79.4	79.4	79.4	79.4	79.4	79.4
≥ 3500		78.1	78.7	78.7	78.7	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4
≥ 3000		79.4	80.0	80.0	80.0	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7
≥ 2500		80.7	81.3	81.3	81.3	81.3	81.3	81.9	81.9	81.9	81.9	81.9	81.9
≥ 2000		81.9	82.6	83.2	83.2	83.2	83.2	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1800		83.9	84.5	85.2	85.2	85.2	85.2	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1500		83.9	84.5	85.2	85.2	85.2	85.2	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1200		84.5	85.2	85.8	86.5	86.5	87.1	87.7	87.7	87.7	87.7	87.7	87.7
≥ 1000		85.2	86.5	87.7	88.4	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7
≥ 900		85.2	86.5	87.7	88.4	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7
≥ 800		85.8	87.7	89.7	90.3	91.0	91.0	91.6	91.6	91.6	91.6	91.6	91.6
≥ 700		86.5	89.0	91.0	91.6	92.3	92.3	93.6	93.6	93.6	93.6	93.6	93.6
≥ 600		86.5	89.0	91.6	92.3	93.6	93.6	94.8	94.8	94.8	94.8	94.8	94.8
≥ 500		87.1	89.7	92.3	92.9	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5
≥ 400		87.1	89.7	92.9	93.6	94.8	94.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 300		87.1	89.7	92.9	94.2	95.5	95.5	97.4	97.4	98.1	98.1	98.1	98.1
≥ 200		87.1	89.7	92.9	94.2	95.5	95.5	97.4	97.4	98.1	98.1	98.1	98.1
≥ 100		87.1	89.7	92.9	94.2	95.5	95.5	97.4	97.4	98.1	98.1	98.1	98.1
≥ 0		87.1	89.7	92.9	94.2	95.5	95.5	97.4	97.4	98.1	98.1	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS

155



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

DEC  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000		51.0	51.0	52.3	52.3	52.3	52.9	52.9	52.9	52.9	52.9	52.9	53.6
≥ 18000		52.9	52.9	54.2	54.2	54.2	54.8	54.8	54.8	54.8	54.8	54.8	55.5
≥ 16000		52.9	52.9	54.2	54.2	54.2	54.8	54.8	54.8	54.8	54.8	54.8	55.5
≥ 14000		52.9	52.9	54.2	54.2	54.2	54.8	54.8	54.8	54.8	54.8	54.8	55.5
≥ 12000		53.6	53.6	54.8	54.8	54.8	55.5	55.5	55.5	55.5	55.5	55.5	56.1
≥ 10000		54.2	54.2	55.5	55.5	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.8
≥ 9000		61.3	61.3	62.6	62.6	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.9
≥ 8000		61.9	61.9	63.2	63.2	63.2	63.9	63.9	63.9	63.9	63.9	63.9	64.5
≥ 7000		66.5	66.5	67.7	67.7	67.7	68.4	68.4	68.4	68.4	68.4	68.4	69.0
≥ 6000		67.7	67.7	69.0	69.0	69.0	69.7	69.7	69.7	69.7	69.7	69.7	70.3
≥ 5000		68.4	68.4	69.7	69.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	71.0
≥ 4500		70.3	70.3	71.6	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.9
≥ 4000		72.9	72.9	74.2	74.2	74.2	74.8	74.8	74.8	74.8	74.8	74.8	75.5
≥ 3500		75.5	75.5	76.8	76.8	76.8	77.4	77.4	77.4	77.4	77.4	77.4	78.1
≥ 3000		76.1	76.1	77.4	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.7
≥ 2500		76.8	77.4	78.7	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4	80.0
≥ 2000		78.1	78.7	80.0	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7	81.3
≥ 1800		78.7	79.4	80.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.9
≥ 1500		79.4	80.0	81.3	81.3	81.3	81.9	81.9	81.9	81.9	81.9	81.9	82.6
≥ 1200		81.9	82.6	84.5	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.8
≥ 1000		83.9	84.5	86.5	86.5	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.7
≥ 900		83.9	85.2	87.1	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	88.4
≥ 800		84.5	85.8	89.0	90.3	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.6
≥ 700		85.2	86.5	89.7	91.0	91.0	91.6	91.6	91.6	91.6	91.6	91.6	92.3
≥ 600		85.2	86.5	90.3	91.6	91.6	92.3	92.3	92.3	92.3	92.3	92.3	93.6
≥ 500		85.2	86.5	91.0	92.3	92.3	92.9	92.9	92.9	92.9	92.9	92.9	94.2
≥ 400		85.8	87.1	92.9	94.8	94.8	96.8	96.8	96.8	96.8	96.8	96.8	97.4
≥ 300		85.8	87.1	92.9	94.8	94.8	96.8	96.8	96.8	96.8	96.8	96.8	97.4
≥ 200		85.8	87.1	92.9	94.8	94.8	96.8	96.8	96.8	96.8	96.8	96.8	97.4
≥ 100		85.8	87.1	92.9	94.8	94.8	96.8	96.8	96.8	96.8	96.8	96.8	97.4
≥ 0		85.8	87.1	92.9	94.8	94.8	96.8	96.8	96.8	96.8	96.8	96.8	97.4

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

DEC  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING		48.4	48.4	49.7	49.7	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 20000		51.0	51.0	52.9	52.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 18000		51.0	51.0	52.9	52.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 16000		51.0	51.0	52.9	52.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 14000		51.0	51.0	52.9	52.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 12000		51.0	51.0	52.9	52.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 10000		56.8	56.8	58.7	58.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 9000		56.8	56.8	58.7	58.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 8000		62.6	62.6	64.5	64.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 7000		63.2	63.2	65.2	65.2	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 6000		64.5	64.5	66.5	66.5	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 5000		65.2	65.2	67.1	67.1	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 4500		65.8	65.8	67.7	67.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 4000		68.4	68.4	70.3	70.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 3500		68.4	68.4	70.3	70.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 3000		69.7	69.7	71.6	71.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 2500		72.9	72.9	75.5	75.5	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 2000		72.9	73.6	77.4	77.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 1800		72.9	73.6	77.4	77.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 1500		72.9	73.6	78.1	78.1	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 1200		73.6	74.2	78.7	78.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3
≥ 1000		74.8	76.8	81.3	82.6	83.9	84.5	84.5	84.5	84.5	84.5	84.5
≥ 900		75.5	77.4	81.9	83.9	85.2	85.8	85.8	85.8	85.8	85.8	85.8
≥ 800		76.1	78.7	83.9	85.8	87.1	87.7	87.7	87.7	87.7	87.7	87.7
≥ 700		76.1	79.4	84.5	86.5	87.7	88.4	89.0	89.0	89.0	89.0	89.0
≥ 600		76.1	79.4	84.5	87.1	88.4	89.0	89.7	89.7	89.7	89.7	89.7
≥ 500		76.8	80.0	85.8	88.4	89.7	90.3	91.0	91.0	91.0	91.0	91.0
≥ 400		77.4	81.3	87.1	90.3	91.6	92.9	93.6	93.6	93.6	93.6	93.6
≥ 300		77.4	81.3	87.1	90.3	92.3	93.5	96.1	96.1	96.1	96.1	96.1
≥ 200		77.4	81.3	87.1	90.3	92.3	93.5	96.1	96.1	96.1	96.1	96.1
≥ 100		77.4	81.3	87.1	90.3	92.3	93.5	96.1	96.1	96.1	96.1	96.1
0		77.4	81.3	87.1	90.3	92.3	93.5	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS

155



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA

73-77

YEARS

DEC  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2
NO CEILING	45.8	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 20000	51.0	52.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 18000	51.6	52.9	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 16000	51.6	52.9	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 14000	51.6	52.9	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 12000	51.6	52.9	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 10000	54.8	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 9000	54.8	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
8000	59.4	60.7	61.9	61.9	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6
7000	61.9	63.2	64.5	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2
6000	62.6	63.9	65.2	65.2	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8
5000	62.6	63.9	65.2	65.2	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8
4500	63.2	64.5	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5
4000	65.2	66.5	67.7	68.4	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0
3500	65.8	67.7	69.7	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0
3000	68.4	70.3	72.3	72.9	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6
2500	69.7	71.6	73.6	74.8	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5
2000	71.6	74.2	76.1	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1
1800	72.3	74.8	76.8	78.7	78.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0
1500	73.6	76.8	78.7	80.7	80.7	81.9	82.6	82.6	82.6	82.6	82.6	82.6
1200	74.2	77.4	79.4	81.3	81.3	82.6	83.2	83.2	83.2	83.2	83.2	83.2
1000	76.1	79.4	81.3	83.9	83.9	85.2	85.8	85.8	85.8	85.8	85.8	85.8
900	76.1	79.4	81.3	84.5	84.5	86.5	87.1	87.1	87.1	87.1	87.1	87.1
800	77.4	80.7	82.6	85.8	85.8	87.7	88.4	88.4	88.4	88.4	88.4	88.4
700	77.4	81.9	83.9	87.1	87.1	89.0	89.7	89.7	89.7	89.7	89.7	89.7
600	77.4	81.9	83.9	87.1	87.1	89.0	90.3	90.3	90.3	91.0	91.0	91.0
500	78.1	83.2	85.2	89.0	89.0	91.0	92.3	92.3	92.3	92.9	92.9	92.9
400	78.1	83.2	85.8	89.7	89.7	92.3	94.2	94.2	94.8	95.5	96.1	96.1
300	78.1	83.2	85.8	89.7	89.7	92.3	94.2	94.2	94.8	95.5	96.1	96.1
200	78.1	83.2	85.8	89.7	89.7	92.3	94.2	94.2	94.8	95.5	96.1	96.1
100	78.1	83.2	85.8	89.7	89.7	92.3	94.2	94.2	94.8	95.5	96.1	96.1
0	78.1	83.2	85.8	89.7	89.7	92.3	94.2	94.2	94.8	95.5	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS

155



# CEILING VERSUS VISIBILITY

NAVY WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION NAME  
NORFOLK, VIRGINIA

73-77

YEARS

DEC  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13  
HOURS (L. S. T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING		41.3	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 20000		49.0	51.0	51.0	51.0	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 18000		49.0	51.0	51.0	51.0	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 16000		49.0	51.0	51.0	51.0	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 14000		49.0	51.0	51.0	51.0	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 12000		50.3	52.3	52.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 10000		54.2	56.1	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 9000		54.8	56.8	56.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 8000		61.3	63.2	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 7000		62.6	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 6000		63.2	65.2	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 5000		63.2	65.2	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 4500		63.2	65.2	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 4000		67.1	69.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 3500		69.0	72.3	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 3000		72.9	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 2500		74.2	78.7	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 2000		76.1	80.7	81.3	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 1800		76.1	81.3	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 1500		77.4	82.6	83.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1200		78.1	83.9	84.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 1000		79.4	86.5	87.1	88.4	88.4	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 900		80.0	87.1	87.7	89.0	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 800		80.0	87.1	87.7	89.7	89.7	89.7	90.3	90.3	90.3	91.0	91.0	91.0	91.0
≥ 700		80.7	89.0	89.7	92.3	92.3	92.9	93.6	93.6	93.6	94.2	94.2	94.2	94.2
≥ 600		80.7	89.0	89.7	92.9	92.9	93.6	94.2	94.2	94.2	94.8	94.8	94.8	94.8
≥ 500		80.7	89.0	90.3	93.6	93.6	94.8	95.5	95.5	95.5	96.1	96.1	96.1	96.1
≥ 400		80.7	89.0	91.0	94.2	94.2	95.5	96.1	96.1	96.1	96.8	96.8	96.8	96.8
≥ 300		80.7	89.0	91.0	94.2	94.2	95.5	96.1	96.1	96.8	97.4	97.4	97.4	97.4
≥ 200		80.7	89.0	91.0	94.2	94.2	95.5	96.1	96.8	97.4	98.1	98.1	98.1	98.1
≥ 100		80.7	89.0	91.0	94.2	94.2	95.5	96.1	96.8	97.4	98.1	98.1	98.1	98.1
0		80.7	89.0	91.0	94.2	94.2	95.5	96.1	96.8	97.4	98.1	98.1	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
13750

STATION NAME  
NORFOLK, VIRGINIA

73-77

YEARS

DEC

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16  
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
≥ 20000		55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
AI 18000		55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
AI 16000		55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
AI 14000		55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
AI 12000		56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
AI 10000		60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
AI 9000		60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
AI 8000		65.8	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
AI 7000		67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
AI 6000		67.1	68.4	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
AI 5000		67.7	69.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
AI 4500		67.7	69.7	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
AI 4000		71.0	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
AI 3500		72.3	74.2	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
AI 3000		75.5	77.4	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
AI 2500		78.7	80.7	81.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
AI 2000		80.0	81.9	83.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
AI 1800		80.0	81.9	83.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
AI 1500		80.7	82.6	84.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
AI 1200		82.6	84.5	87.1	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
AI 1000		83.2	85.2	87.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
AI 900		84.5	86.5	89.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
AI 800		84.5	86.5	89.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
AI 700		84.5	86.5	89.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
AI 600		84.5	86.5	89.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
AI 500		85.2	87.1	89.7	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
AI 400		85.2	87.1	89.7	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
AI 300		85.2	87.1	89.7	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
AI 200		85.2	87.1	89.7	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
AI 100		85.2	87.1	89.7	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
AI 0		85.2	87.1	89.7	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS



1225

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

DEC  
MONTH

19  
HOURS (L S T)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 20000		54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 18000		54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 16000		54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 14000		54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 12000		56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 10000		60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 9000		60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
8000		65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
7000		65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
6000		66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
5000		67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
4500		68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
4000		72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
3500		73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
3000		74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
2500		76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
2000		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
1800		81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
1500		83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
1200		84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
1000		85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
900		86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
800		86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
700		86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
600		86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
500		86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
400		86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
300		86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
200		86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
100		86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
0		86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

DEC

MORTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 20000	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 18000	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 16000	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 14000	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 12000	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 10000	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 9000	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 8000	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 7000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 6000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 5000	71.6	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 4500	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 4000	74.2	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 3500	75.5	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 3000	76.8	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 2500	77.4	78.7	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 2000	80.0	82.6	83.2	83.9	83.9	83.9	83.9	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1800	80.7	83.2	83.9	84.5	84.5	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2
≥ 1500	82.6	85.2	85.8	86.5	86.5	86.5	86.5	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1200	83.9	86.5	87.7	88.4	88.4	88.4	88.4	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1000	85.2	87.7	89.7	91.0	91.0	91.0	91.0	91.6	91.6	91.6	91.6	91.6	91.6
≥ 900	85.8	88.4	90.3	91.6	91.6	91.6	91.6	92.3	92.3	92.3	92.3	92.3	92.3
≥ 800	85.8	89.0	91.0	92.3	92.3	92.3	92.3	93.6	93.6	93.6	93.6	93.6	93.6
≥ 700	85.8	89.7	91.6	93.6	93.6	93.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8
≥ 600	86.5	91.0	92.9	94.8	94.8	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 500	86.5	91.0	92.9	94.8	94.8	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 400	86.5	91.0	92.9	94.8	94.8	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 300	86.5	91.6	93.6	95.5	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 200	86.5	91.6	93.6	95.5	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 100	86.5	91.6	93.6	95.5	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1
0	86.5	91.6	93.6	95.5	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS

155

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13730  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

DEC  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING		48.4	48.7	49.0	49.0	49.1	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥ 20000		53.6	54.0	54.4	54.5	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 18000		53.6	54.0	54.5	54.6	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
≥ 16000		53.6	54.0	54.5	54.6	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
≥ 14000		53.8	54.2	54.7	54.8	54.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 12000		54.8	55.2	55.7	55.8	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 10000		59.6	60.0	60.3	60.7	60.8	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 9000		59.8	60.2	60.7	60.8	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 8000		63.2	65.7	66.3	66.5	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
≥ 7000		66.3	66.9	67.5	67.7	68.0	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 6000		66.9	67.5	68.2	68.4	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 5000		67.6	68.3	69.0	69.3	69.5	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 4500		68.8	69.5	70.3	70.6	70.8	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 4000		71.5	72.3	73.2	73.6	73.8	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 3500		72.3	73.6	74.5	74.8	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 3000		74.2	75.5	76.5	76.9	77.1	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 2500		75.8	77.3	78.4	79.0	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 2000		77.6	79.4	80.9	81.5	81.8	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 1800		78.2	80.2	81.7	82.4	82.7	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 1500		79.2	81.3	82.9	83.8	84.1	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 1200		80.4	82.6	84.6	85.5	85.9	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 1000		81.7	84.3	86.5	87.7	88.2	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 900		82.1	84.8	87.2	88.7	89.2	89.7	89.8	89.8	89.8	89.9	89.9	89.9	89.9
≥ 800		82.6	85.6	88.2	90.1	90.7	91.2	91.4	91.4	91.5	91.5	91.5	91.5	91.5
≥ 700		82.8	86.4	89.1	91.1	91.8	92.4	92.7	92.8	92.8	92.9	92.9	92.9	92.9
≥ 600		82.9	86.5	89.4	91.7	92.4	93.2	93.5	93.6	93.7	93.7	93.7	93.7	93.7
≥ 500		83.2	86.9	90.1	92.5	93.4	94.3	94.7	94.8	94.8	94.9	94.9	94.9	94.9
≥ 400		83.4	87.2	90.7	93.4	94.4	95.8	96.4	96.4	96.5	96.8	96.8	96.8	96.8
≥ 300		83.4	87.3	90.8	93.6	94.7	96.6	97.2	97.2	97.3	97.7	97.9	98.0	98.2
≥ 200		83.4	87.3	90.8	93.6	94.7	96.7	97.3	97.3	97.7	98.3	98.6	98.6	98.9
≥ 100		83.4	87.3	90.8	93.6	94.7	96.7	97.3	97.3	97.8	98.6	98.9	99.0	99.2
0		83.4	87.3	90.8	93.6	94.7	96.7	97.3	97.3	97.8	98.6	98.9	99.0	99.2

TOTAL NUMBER OF OBSERVATIONS

1240



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13750  
STATION

NORFOLK, VIRGINIA

73-77

YEARS

ALL  
NORTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	49.3	52.3	54.2	55.2	55.3	55.6	55.6	55.6	55.6	55.6	55.7	55.7	55.7
≥ 20000	55.4	58.9	61.3	62.4	62.6	62.9	62.9	62.9	62.9	63.0	63.0	63.0	63.0
18000	55.5	59.0	61.3	62.5	62.7	62.9	63.0	63.0	63.0	63.0	63.0	63.1	63.1
16000	55.5	59.0	61.3	62.5	62.7	62.9	63.0	63.0	63.0	63.0	63.1	63.1	63.1
14000	55.6	59.2	61.5	62.7	62.9	63.1	63.2	63.2	63.2	63.2	63.3	63.3	63.3
12000	56.5	60.1	62.5	63.7	63.9	64.2	64.2	64.3	64.3	64.3	64.3	64.3	64.4
10000	60.3	64.2	66.7	68.0	68.2	68.5	68.5	68.6	68.6	68.6	68.6	68.6	68.7
≥ 9000	60.6	64.4	67.0	68.3	68.5	68.8	68.8	68.9	68.9	68.9	68.9	68.9	69.0
8000	65.6	69.8	72.5	74.0	74.2	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.7
7000	66.5	70.8	73.6	75.0	75.3	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.8
6000	66.9	71.3	74.0	75.5	75.7	76.0	76.1	76.1	76.2	76.2	76.2	76.2	76.3
5000	67.7	72.2	75.0	76.5	76.8	77.1	77.2	77.2	77.2	77.2	77.3	77.3	77.3
4500	68.4	72.9	75.8	77.3	77.5	77.8	77.9	77.9	77.9	78.0	78.0	78.0	78.1
4000	70.2	74.9	77.9	79.4	79.7	80.0	80.1	80.1	80.1	80.2	80.2	80.2	80.3
3500	71.1	75.8	78.8	80.4	80.7	81.0	81.1	81.1	81.1	81.2	81.2	81.2	81.3
3000	73.5	78.4	81.6	83.2	83.5	83.9	84.0	84.0	84.1	84.1	84.1	84.1	84.2
2500	74.7	79.8	83.0	84.8	85.1	85.5	85.6	85.6	85.6	85.7	85.7	85.7	85.8
2000	76.3	81.6	85.0	86.9	87.2	87.6	87.6	87.8	87.8	87.9	87.9	87.9	88.0
1800	76.7	82.1	85.5	87.4	87.7	88.2	88.3	88.3	88.4	88.4	88.4	88.5	88.5
1500	77.7	83.2	86.8	88.7	89.1	89.6	89.6	89.8	89.8	89.9	89.9	89.9	90.0
1200	78.4	84.2	88.1	90.1	90.5	91.1	91.1	91.2	91.3	91.3	91.3	91.4	91.5
1000	79.1	85.1	89.1	91.3	91.8	92.4	92.4	92.6	92.6	92.7	92.7	92.8	92.8
900	79.4	85.5	89.6	91.9	92.4	93.0	93.0	93.2	93.2	93.3	93.3	93.4	93.5
800	79.8	86.0	90.3	92.8	93.4	94.0	94.0	94.3	94.3	94.4	94.4	94.5	94.5
700	80.0	86.5	90.9	93.5	94.1	94.9	94.9	95.2	95.2	95.3	95.3	95.4	95.5
600	80.2	86.7	91.3	94.0	94.7	95.6	95.6	95.9	95.9	96.0	96.0	96.1	96.2
500	80.3	86.9	91.7	94.5	95.4	96.4	96.4	96.8	96.8	96.9	97.0	97.1	97.2
400	80.3	87.0	91.9	94.9	95.8	97.0	97.0	97.4	97.5	97.7	97.8	97.9	98.0
300	80.3	87.0	91.9	95.0	96.0	97.3	97.3	97.6	97.9	98.1	98.3	98.5	98.6
200	80.3	87.1	92.0	95.0	96.0	97.3	97.3	98.0	98.0	98.3	98.6	98.9	99.0
100	80.3	87.1	92.0	95.0	96.0	97.3	97.3	98.0	98.0	98.3	98.6	98.9	99.1
0	80.3	87.1	92.0	95.0	96.0	97.3	97.3	98.0	98.0	98.3	98.6	98.9	99.2
0	80.3	87.1	92.0	95.0	96.0	97.3	97.3	98.0	98.0	98.3	98.6	98.9	99.3
0	80.3	87.1	92.0	95.0	96.0	97.3	97.3	98.0	98.0	98.3	98.6	98.9	99.4

TOTAL NUMBER OF OBSERVATIONS 14608





## SKY COVER

13750  
STATIONNORFOLK, VIRGINIA  
STATION NAME

73-77

PERIOD

FEB  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
FEB	01	41.1	3.5	1.4	6.4	1.4	2.1	1.4	5.0	1.4	2.8	33.3	141
	04	37.6	2.1	2.8	7.1	1.4	1.4		2.1	5.0	1.4	39.0	141
	07	20.6	7.8	5.7	4.3	8.5	2.8	1.4	5.0	5.7	5.7	32.6	141
	10	29.8	6.4	1.4	2.1	1.4	2.1	4.3	5.0	3.5	9.2	34.8	141
	13	26.2	6.4	2.8	3.5	3.5	6.4	2.1	2.8	3.5	6.4	36.2	141
	16	23.4	5.0	6.4	2.1	2.1	2.8	2.1	2.8	7.8	5.7	39.7	141
	19	27.0	5.0	5.7	7.1	3.5	2.1	2.1	4.3	3.5	5.7	34.0	141
	22	39.7	4.3	3.5	3.5	1.4		2.8	2.8	3.5	2.1	36.2	141
TOTALS		30.7	5.1	3.7	4.5	2.9	2.5	2.0	3.7	4.2	4.9	35.7	1128

**DATE**  
**MONTH**

PERIOD

STATION NAME

NORFOLK, VIRGINIA

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
MAR	01	28.4	3.2	5.2	3.9	3.2	3.2	1.9	3.2	3.9	4.5	39.4	5.5	155
	04	29.7	1.3	3.2	5.2	4.5	1.3	1.9	3.2	5.2	2.6	41.9	5.7	155
	07	16.8	5.8	2.6	2.6	1.9	5.2	2.6	5.2	8.4	3.2	45.8	6.6	155
	10	14.8	5.8	3.9	3.2	3.2	1.9	2.6	1.9	7.7	6.5	48.4	6.8	155
	13	16.1	3.2	3.2	3.2	1.9	3.2	3.9	5.2	1.3	7.1	51.6	6.9	155
	16	16.1	3.9	3.2	3.2	1.9	1.3	3.2	3.9	8.4	7.1	47.7	6.9	155
	19	14.2	5.2	4.5	3.9	3.9	3.2		4.5	7.1	6.5	47.1	6.7	155
	22	25.2	2.6	1.9	3.9	3.9	1.3	3.9	3.9	5.2	7.7	40.6	6.1	155
TOTALS		20.2	3.9	3.5	3.6	3.1	2.6	2.5	3.9	5.9	5.7	45.3	6.4	1240



APR \_\_\_\_\_  
MONTH

PERIOD

73-77

STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE
STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE

NORFOLK, VIRGINIA

**STATION**  
**13750**

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

5704 SKY COVER JAN 68

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
APR	01	39.3	1.3	2.7	4.7	6.0	6.0	2.0	5.3	3.3	2.7	26.7	4.4	150
	04	39.3	2.0	2.7	6.7	5.3	4.7	2.7	4.0	4.0	3.3	25.3	4.3	150
	07	27.3	4.7	7.3	10.0	3.3	.7	2.0	4.0	2.0	10.0	28.7	5.0	150
	10	26.7	8.7	4.7	4.0	5.3	4.7	2.0	5.3	8.7	5.3	26.7	5.1	150
	13	21.3	8.0	8.0	3.3	4.0	6.0	4.7	4.0	7.3	7.3	26.0	5.2	150
	16	19.3	5.3	2.7	5.3	3.3	4.7	6.7	5.3	8.7	8.0	30.7	5.9	150
	19	18.7	5.3	4.7	7.3	6.0	1.3	6.0	6.0	2.7	8.7	33.3	5.8	150
	22	31.3	1.3	4.7	9.3	3.3	5.3	6.0	4.7	2.7	4.0	27.3	4.8	150
TOTALS		27.7	4.6	4.7	6.3	4.6	4.2	4.0	4.8	4.9	6.2	28.1	5.1	1200

# SKY COVER

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

PERIOD

MAY  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
MAY	01	17.4	3.2	7.7	9.0	4.3	5.8	3.2	7.1	5.2	5.2	31.6	155
	04	17.4	2.6	5.8	5.8	8.4	8.4	3.2	3.2	9.7	4.5	31.0	155
	07	17.4	5.2	3.2	10.3	1.9	3.2	5.8	1.9	13.5	1.9	35.5	155
	10	18.1	4.5	4.5	5.8	4.5	3.9	3.2	5.2	7.7	7.7	34.8	155
	13	9.0	5.2	6.5	5.2	7.1	3.9	2.6	6.5	7.7	10.3	36.1	155
	16	6.5	8.4	5.2	1.9	9.0	7.1	3.2	7.7	11.6	7.1	32.3	155
	19	9.7	3.9	7.1	6.5	1.9	7.1	3.9	7.1	12.9	3.9	36.1	155
	22	18.7	3.2	6.5	4.5	11.0	3.2	7.7	3.9	4.5	5.2	31.6	155
TOTALS		14.3	4.5	5.8	6.1	6.0	5.3	4.1	5.3	9.1	5.7	33.6	1240

**MONTH**  
**JUN**

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JUN	01	17.3	4.0	10.7	8.0	6.7	8.0	2.0	5.3	8.0	5.3	24.7	5.2	150
	04	7.3	8.0	10.7	8.7	6.7	7.3	2.7	6.0	8.7	4.7	29.3	5.8	150
	07	10.7	7.3	6.7	6.7	2.7	4.7	4.0	10.7	14.7	5.3	26.7	6.1	150
	10	8.0	4.7	7.3	6.7	6.7	6.7	4.0	8.0	8.7	8.0	31.3	6.3	150
	13	6.7	5.3	1.3	8.7	5.3	6.0	5.3	8.7	10.7	10.7	31.3	6.7	150
	16	6.0	2.7	2.7	8.0	5.3	6.7	3.3	10.0	12.7	12.0	30.7	6.9	150
	19	7.3	6.0	3.3	2.7	4.7	5.3	3.3	7.3	12.7	14.0	33.3	7.0	150
	22	13.3	2.0	7.3	10.7	4.0	5.3	6.7	6.7	8.7	8.0	27.3	5.9	150
TOTALS		6.6	8.0	6.3	7.5	8.3	6.3	3.9	7.8	10.6	8.5	29.3	6.2	1200



**STATION**  
**13750**

**TOTALS**

NAVWEASERVCOM

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
AUG	01	20.6	2.6	6.5	9.7	12.3	4.5	4.5	6.5	5.2	6.5	21.3	5.0	155
	04	22.6	5.2	11.6	5.8	11.0	2.6	4.5	6.5	7.1	3.9	19.4	4.6	155
	07	7.7	4.5	6.5	10.3	5.8	6.5	3.9	7.7	10.3	11.6	25.2	6.2	155
	10	11.6	4.5	8.4	9.7	4.5	3.2	6.5	7.1	11.6	9.0	23.9	5.9	155
	13	5.8	6.5	9.7	8.4	9.0	5.2	8.4	7.7	10.3	7.1	21.9	5.8	155
	16	5.8	7.1	3.9	9.0	11.0	8.4	4.5	9.0	12.9	9.7	18.7	6.0	155
	19	8.4	5.2	7.7	8.4	7.1	8.4	3.9	8.4	9.7	9.0	23.9	6.0	155
	22	21.3	3.2	7.1	7.1	10.3	5.8	4.5	7.1	6.5	3.9	23.2	5.0	155
TOTALS		13.0	4.9	7.7	8.6	8.9	5.6	5.1	7.5	9.2	7.6	22.2	5.6	1240

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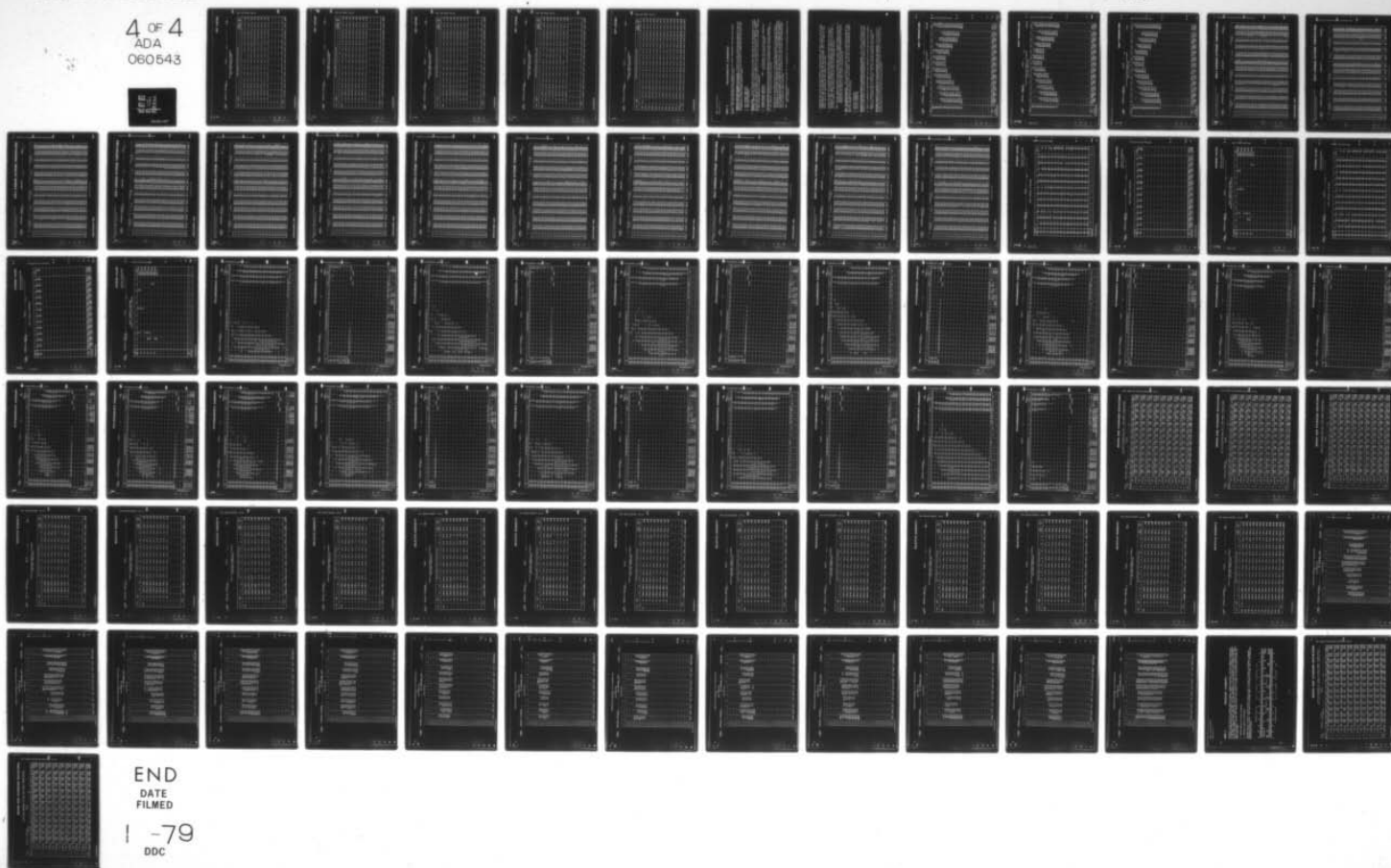
NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C  
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS) NORFOLK,--ETC(U)  
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**WINE**

**SEP**  
**MONTH**

5704 SKY COVER JAN 68

000000

150  
MONTH

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
OCT	01	36.8	5.2	4.5	3.2	2.6	3.9	3.9	2.6	7.1	3.9	26.5	4.5	155
	04	36.1	5.2	5.2	5.8	3.9	.6	2.6	5.8	5.8	4.5	24.5	4.4	155
	07	20.6	8.4	9.7	6.5	1.9	3.2	3.2	7.7	3.9	7.1	27.7	5.2	155
	10	17.4	7.1	7.7	3.9	4.5	5.8	5.2	7.1	4.5	9.7	27.1	5.6	155
	13	17.4	4.5	7.7	5.8	2.6	5.8	4.5	5.8	5.8	8.4	31.6	5.8	155
	16	16.8	6.5	5.2	5.8	5.2	6.5	5.2	6.5	7.1	5.8	29.7	5.7	155
	19	20.0	7.1	5.2	6.5	5.2	3.2	4.5	7.1	7.1	4.5	29.7	5.4	155
	22	31.6	6.5	3.9	5.2	1.3	4.5	1.9	4.5	7.1	5.2	28.4	4.9	155
TOTALS		24.6	6.3	6.1	5.3	3.6	4.2	3.9	5.9	6.1	6.1	28.2	5.2	1240

# SKY COVER

5704 SKY COVER JAN 68

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

PERIOD

NOV  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
NOV	01	41.3	6.0	6.0	2.0	2.0	2.7	2.7	2.0	3.3	5.3	26.7	150
	04	46.7	2.7	3.3	4.7	4.0	1.3	.7	4.7	2.7	5.3	24.0	150
	07	18.0	11.3	11.3	4.0	5.3	6.0	3.3	7.3	4.7	6.7	22.0	150
	10	24.7	6.0	6.7	5.3	4.7	2.0	4.7	4.0	6.7	6.7	28.7	150
	13	21.3	6.7	8.0	4.7	4.0	4.0	1.3	6.0	7.3	8.0	28.7	150
	16	19.3	4.7	8.7	6.0	4.0	2.7	.7	8.0	7.3	8.7	30.0	150
	19	27.3	4.7	8.7	6.0	4.0	1.3	2.0	6.7	9.3	6.0	24.0	150
	22	33.3	2.7	8.7	6.7	2.0	1.3	2.7	4.0	6.7	4.0	28.0	150
TOTALS		29.0	5.6	7.7	4.9	3.8	2.7	2.3	5.3	6.0	6.3	26.5	1200



DEC  
MONTH

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

5704 SKY COVER JAN 68

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
DEC	01	34.2	1.3	3.2	5.2	3.9	5.2	.6	1.9	3.2	1.9	39.4	5.2	155
	04	37.4	1.9	3.9	3.9	2.6	1.9	1.9	.6	5.8	3.2	36.8	5.0	155
	07	19.4	5.8	4.5	9.7	1.9	2.6	2.6	5.8	7.7	5.8	34.2	5.8	155
	10	18.1	5.8	7.1	3.2	1.9	5.2	1.9	2.6	7.1	7.1	40.0	6.1	155
	13	21.9	2.6	7.1	1.3	1.3	2.6	1.3	3.9	8.4	5.2	44.5	6.3	155
	16	19.4	4.5	8.4	3.9	1.9	3.2	2.6	2.6	4.5	7.7	41.3	6.1	155
	19	25.2	3.2	5.8	7.1	2.6	3.2		3.2	5.8	4.5	39.4	5.7	155
	22	33.5	1.3	3.9	5.2	1.3	.6	1.3	5.2	3.9	5.2	38.7	5.4	155
TOTALS		26.1	3.3	5.5	4.9	2.2	3.1	1.5	3.2	5.8	5.1	39.3	5.7	1240

# SKY COVER

5704 SKY COVER JAN 68

ALL  
MONTH

PERIOD

73-77

13750 NORFOLK, VIRGINIA  
STATION NAME

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JAN	ALL	23.7	3.6	4.0	4.5	3.7	2.2	3.0	4.2	5.4	4.9	41.1	6.0	1240
FEB		30.7	5.1	3.7	4.5	2.9	2.5	2.0	3.7	4.2	4.9	35.7	5.2	1128
MAR		20.2	3.9	3.5	3.6	3.1	2.6	2.5	3.9	5.9	5.7	45.3	6.4	1240
APR		27.7	4.6	4.7	6.3	4.6	4.2	4.0	4.8	4.9	6.2	28.1	5.1	1200
MAY		14.3	4.5	5.8	6.1	6.0	5.3	4.1	5.3	9.1	5.7	33.6	6.1	1240
JUN		9.6	5.0	6.3	7.5	5.3	6.3	3.9	7.8	10.6	8.5	29.3	6.2	1200
JUL		15.8	4.8	7.4	8.6	6.7	6.0	3.8	5.2	9.0	9.3	23.5	5.5	1240
AUG		13.0	4.9	7.7	8.6	8.9	5.6	5.1	7.5	9.2	7.6	22.2	5.6	1240
SEP		18.3	5.2	7.1	8.3	7.1	5.3	2.6	6.4	7.4	7.2	25.1	5.3	1200
OCT		24.6	6.3	6.1	5.3	3.4	4.2	3.9	5.9	6.1	6.1	28.2	5.2	1240
NOV		29.0	5.6	7.7	4.9	3.8	2.7	2.3	5.3	6.0	6.3	26.5	4.9	1200
DEC		26.1	3.3	5.5	4.9	2.2	3.1	1.5	3.2	5.8	5.1	39.3	5.7	1240
TOTALS		21.1	4.7	5.8	6.1	4.8	4.2	3.2	5.3	7.0	6.5	31.5	5.6	14608

## PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperature
  - b. Daily minimum temperature
  - c. Daily mean temperature
2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
  - a. Extreme maximum temperature
  - b. Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:
  - a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total no. of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.



- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma_x$ ). The number of observations used in the computations for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:

- a. Dry-bulb temperature
- b. Wet-bulb temperature
- c. Dew-point temperature

5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.

- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

6. Percentage frequency of occurrence of dry-bulb temperature versus wind direction - This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The main body of the summary consists of dry bulb temperatures spread vertically in four degree increments and horizontally by eight wind directions (plus calm).

## DAILY TEMPERATURES

**13750**  
**STATION**

**NORFOLK, VIRGINIA**

STATION NAME

45-77

YEARS

**MAXIMUM**

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
100						3	1	1	1				0
95					3	6.1	8.6	7.4	6				2.0
90				1.1	5.4	23.2	34.1	27.0	9.6	.2			8.5
85			1.0	6.7	17.5	44.9	60.8	54.6	26.7	2.9			18.1
80		.5	4.0	16.0	34.8	67.7	87.0	79.4	50.5	10.1	2.2		29.6
75	1.2	2.0	10.5	29.6	54.6	84.6	98.5	97.3	76.9	27.4	8.9	.8	41.3
70	4.7	6.1	18.2	42.6	72.5	96.2	99.8	99.9	92.8	50.5	20.3	5.1	51.1
65	12.2	13.0	28.4	56.6	87.6	99.2	100.0	100.0	98.6	74.3	34.1	13.7	60.2
60	24.1	24.8	41.4	73.7	96.5	100.0			99.9	91.9	52.6	25.2	69.7
55	32.7	37.1	55.3	89.6	99.5				100.0	97.6	70.3	35.9	76.8
50	43.6	50.1	72.1	97.5	100.0					99.1	86.8	32.9	83.7
45	59.8	65.6	87.8	99.5						100.0	95.2	71.2	90.1
40	76.4	84.4	96.6	100.0							99.0	85.8	95.3
35	88.7	94.1	98.9								99.9	95.1	98.1
30	97.1	98.6	99.9								100.0	99.2	99.6
25	99.5	99.7	100.0									100.0	99.9
20	99.8	100.0											100.0
15	100.0												100.0
MEAN	48.9	50.8	57.7	67.8	75.4	83.1	86.4	85.3	79.7	69.7	60.4	51.3	68.0
S. D.	11.969	11.422	11.742	10.602	8.939	7.728	5.909	6.050	7.013	7.727	9.791	10.769	16.350
TOTAL OBS.	992	931	1020	990	1023	990	1021	1023	990	1022	988	1023	12013



## DAILY TEMPERATURES

**13750**  
**STATION**

**NORFOLK, VIRGINIA**  
**STATION NAME**

45-77

YEARS

## MINIMUM

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)**

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
80						.8	1.7	1.4					.3
75					.2	9.2	28.7	23.9	6.4	.1			5.8
70				.2	5.4	40.0	78.5	75.6	38.0	1.9	.1		20.2
65			1.0	2.6	22.1	71.3	96.8	94.9	69.5	14.2	1.2	.1	31.4
60	.6	.4	3.4	11.6	47.6	92.1	99.9	99.5	90.4	38.6	6.3	.6	41.2
55	2.0	1.8	7.6	25.4	73.9	98.9	100.0	99.9	97.5	61.4	16.1	3.0	49.3
50	4.8	4.3	14.2	49.2	92.1	99.8		100.0	100.0	82.9	29.8	8.1	57.5
45	11.3	10.4	30.2	75.2	98.3	100.0				93.4	52.4	18.4	66.2
40	27.2	28.9	59.5	94.3	99.9					97.8	76.9	37.7	77.2
35	48.2	52.3	81.6	99.0	100.0					99.8	91.8	59.5	86.2
30	71.0	76.8	93.2	99.9						100.0	98.2	81.0	93.6
25	87.0	90.5	99.4	100.0							99.6	93.1	97.5
20	96.1	97.5	100.0								100.0	99.2	99.4
15	99.0	99.8									99.9	99.9	99.9
10	99.9	100.0									100.0	100.0	100.0
5	100.0												100.0
MEAN	34.4	35.2	41.6	49.9	58.9	67.6	72.1	71.8	67.0	56.5	45.5	37.0	53.1
S. D.	8.810	8.115	8.095	7.359	6.645	5.495	3.767	3.995	5.591	7.458	8.299	8.497	15.480
TOTAL OBS.	992	930	1020	990	1023	990	1021	1023	990	1022	988	1023	12012

NAVWEASERVCOM



**STATION**  
**13750**

**NORFOLK, VIRGINIA**  
STATION NAME

45-77

YEARS

## DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MEAN

[illegible]

NAVWEASERVCOM

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

1946-1977

YEARS

JANUARY

MONTH

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		AVERAGE		MINIMUM TEMP		DATE
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	
1	43.5	6.4	50.9	10.5	75	23.9	36.1	2.3	21	-6.1	1963
2	42.2	5.7	49.5	9.7	73	22.8	35.0	1.7	23	-5.0	1957
3	43.7	6.5	51.0	10.6	68	20.0	36.5	2.5	24	-4.4	1977
4	43.8	6.6	50.3	10.2	75	23.9	37.2	2.9	23	-5.0	1958
5	41.6	5.3	48.4	9.1	73	22.8	34.7	1.5	20	-6.7	1959
6	42.0	5.6	48.6	9.2	74	23.3	35.3	1.8	19	-7.2	1959
7	42.0	5.6	49.3	9.6	74	23.3	34.7	1.5	23	-5.0	1977
8	39.4	4.1	45.6	7.6	67	19.4	33.1	0.6	14	-10.0	1970
9	40.8	4.9	48.1	8.9	73	22.8	33.5	0.8	11	-11.7	1970
10	42.1	5.6	49.8	9.9	72	22.2	34.4	1.3	12	-11.1	1970
11	40.5	4.7	46.9	8.3	76	24.4	34.1	1.2	16	-8.9	1962
12	39.1	3.9	45.0	7.2	67	19.4	33.2	0.7	18	-7.8	1977
13	40.4	4.7	48.0	8.9	69	20.6	32.8	0.4	18	-7.8	1977
14	40.7	4.8	47.9	8.8	70	21.1	33.6	0.9	17	-8.3	1964
15	41.3	5.2	48.1	8.9	71	21.7	34.6	1.4	18	-7.8	1948
16	40.0	4.4	47.5	8.6	72	22.2	32.5	0.3	10	-12.2	1972
17	38.4	3.6	46.0	7.8	73	22.8	30.8	-0.7	7	-13.9	1977
18	39.5	4.2	46.6	8.1	69	20.6	32.3	0.2	14	-10.0	1977
19	41.2	5.1	48.5	9.2	69	20.6	33.9	1.1	12	-11.1	1977
20	41.9	5.5	49.4	9.7	72	22.2	34.4	1.3	19	-7.2	1977
21	41.7	5.4	49.2	9.6	73	22.8	34.1	1.2	15	-9.4	1970
22	41.5	5.3	48.8	9.3	72	22.2	34.1	1.2	15	-9.4	1970
23	43.4	6.3	52.0	11.1	75	23.9	34.8	1.6	18	-7.8	1970
24	42.6	5.9	50.3	10.2	74	23.3	34.9	1.6	15	-9.4	1963
25	43.4	6.3	50.0	10.0	76	24.4	36.8	2.7	17	-8.3	1948
26	45.8	7.7	53.4	11.9	77	25.0	38.2	3.4	24	-4.4	1963
27	44.2	6.8	52.2	11.2	76	24.4	36.3	2.4	22	-5.6	1961
28	41.7	5.4	49.3	9.6	75	23.9	34.1	1.2	18	-7.8	1963
29	41.9	5.5	49.9	9.9	78	25.6	33.9	1.1	15	-9.4	1977
30	42.0	5.6	49.5	9.7	75	23.9	34.5	1.4	14	-10.0	1966
31	39.8	4.3	46.7	8.2	70	21.1	32.9	0.5	13	-10.6	1966
Monthly	41.7	5.4	48.9	9.4	78	25.6	34.4	1.3	7	-13.9	1977

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

25 DAILY AVERAGE/EXTREME TEMP MAR 1978

STATION  
13750

NORFOLK, VIRGINIA  
STATION NAME

1946-1977

YEARS

FEBRUARY

MONTH

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		EXTREME		AVERAGE		MINIMUM TEMP		DATE
	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	
1	41.5	5.3	48.7	9.3	72	22.2	1951	1.3	34.4	1.3	15	-9.4	1965
2	41.3	5.2	47.7	8.7	70	21.1	1967	1.6	34.8	1.6	20	-6.7	1971
3	39.5	4.2	47.3	8.5	61	16.1	1973	-0.1	31.8	-0.1	22	-5.6	1955
4	39.8	4.3	46.9	8.3	67	19.4	1957	0.4	32.7	0.4	18	-7.8	1970
5	40.2	4.6	47.5	8.6	69	20.6	1962	0.6	33.0	0.6	15	-9.4	1947
6	43.0	6.1	51.7	10.9	67	19.4	1946	1.3	34.4	1.3	13	-7.8	1977*
7	42.1	5.6	49.5	9.7	64	17.8	1965	1.5	34.7	1.5	16	-8.9	1977
8	38.7	3.7	45.7	7.6	69	20.6	1965	-0.2	31.6	-0.2	18	-7.8	1951
9	39.7	4.3	46.6	8.1	67	19.4	1949	0.4	32.7	0.4	16	-8.9	1977*
10	41.5	5.3	49.6	9.8	73	22.8	1959	0.8	33.5	0.8	20	-6.7	1958
11	42.3	5.7	50.5	10.3	70	21.1	1959	1.2	34.2	1.2	21	-6.1	1968*
12	40.7	4.8	48.3	9.1	76	24.4	1965	0.7	33.2	0.7	18	-7.8	1955
13	43.1	6.2	51.2	10.7	72	22.2	1951*	1.7	35.1	1.7	19	-7.2	1955
14	45.4	7.4	55.2	12.9	76	24.4	1949	2.0	35.6	2.0	23	-5.0	1955
15	45.0	7.2	53.0	11.7	76	24.4	1949	2.7	36.9	2.7	23	-5.0	1963
16	43.9	6.6	51.4	10.8	76	24.4	1976*	2.4	36.4	2.4	17	-8.3	1963
17	42.3	5.7	49.7	9.8	80	26.7	1976	1.8	35.3	1.8	12	-11.1	1958
18	43.2	6.2	51.0	10.6	80	26.7	1976	1.9	35.4	1.9	13	-10.6	1958
19	45.1	7.3	53.3	11.8	73	22.8	1961	2.7	36.9	2.7	18	-7.8	1958
20	42.7	5.9	49.5	9.7	70	21.1	1971	2.2	35.9	2.2	23	-5.0	1966
21	42.4	5.8	50.0	10.0	75	23.9	1953	1.6	34.8	1.6	21	-6.1	1968
22	43.8	6.6	52.2	11.2	72	22.2	1974	1.9	35.5	1.9	15	-9.4	1963
23	43.3	6.3	50.5	10.3	80	26.7	1975	2.3	36.2	2.3	15	-9.4	1963
24	44.9	7.2	53.1	11.7	82	27.8	1975	2.6	36.7	2.6	20	-6.7	1947
25	45.8	7.7	54.5	12.5	73	22.8	1961	2.9	37.2	2.9	18	-7.8	1967
26	46.0	7.8	54.3	12.4	73	22.8	1977*	3.2	37.7	3.2	20	-6.7	1970
27	46.1	7.8	53.9	12.2	77	25.0	1977	3.5	38.3	3.5	18	-7.8	1963
28	48.3	9.1	58.2	14.6	78	25.6	1954	3.5	38.3	3.5	26	-3.3	1963
29	48.4	9.1	56.2	13.4	80	26.7	1972	4.7	40.5	4.7	30	-1.1	1964
30													
31													
Monthly	43.0	6.1	50.8	10.4	82	27.8	1975	1.8	35.2	1.8	12	-11.1	1958

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMP MAR 1977

STATION 13730 NORFOLK, VIRGINIA STATION NAME 1946-1977 YEARS MONTH MARCH

DAY	MEAN TEMP		MAXIMUM TEMP		MINIMUM TEMP		DATE
	AVERAGE ° F	AVERAGE ° C	AVERAGE ° F	EXTREME ° C	AVERAGE ° F	EXTREME ° C	
1	46.3	7.9	53.7	12.1	79	26.1	1976*
2	45.8	7.7	53.5	11.9	82	27.8	1972
3	46.5	8.1	54.2	12.3	77	25.0	1974
4	48.4	9.1	56.2	13.4	80	26.7	1974
5	50.2	10.1	58.6	14.8	83	28.3	1976
6	48.8	9.3	57.6	14.2	83	28.3	1967
7	48.0	8.9	55.5	13.1	83	28.3	1974
8	47.2	8.4	55.2	12.9	77	25.0	1946
9	45.4	7.4	52.6	11.4	80	26.7	1964
10	46.5	8.1	54.2	12.3	78	25.6	1964
11	47.7	8.7	55.6	13.1	78	25.6	1967
12	50.1	10.1	58.5	14.7	77	25.0	1973
13	50.5	10.3	58.6	14.8	78	25.6	1976
14	49.6	9.8	58.2	14.6	85	29.4	1973
15	49.7	9.8	58.1	14.5	85	29.4	1973
16	49.6	9.8	57.5	14.2	81	27.2	1972
17	47.4	8.6	54.8	12.7	73	22.8	1973
18	47.2	8.4	54.4	12.4	73	22.8	1977
19	48.0	8.9	55.5	13.1	72	22.2	1974
20	48.6	9.2	55.8	13.2	83	28.3	1948
21	51.1	10.6	59.3	15.2	87	30.6	1968*
22	51.2	10.7	59.9	15.5	87	30.6	1948
23	50.7	10.4	59.5	15.3	82	27.8	1966
24	51.8	11.0	61.3	16.3	84	28.9	1975
25	50.5	10.3	58.4	14.7	84	28.9	1954
26	51.7	10.9	60.2	15.7	79	26.1	1949*
27	51.2	10.7	59.7	15.4	83	28.3	1950*
28	51.9	11.1	60.4	15.8	78	25.6	1968*
29	53.7	12.1	62.1	16.7	81	27.2	1968
30	53.0	11.7	60.7	15.9	81	27.2	1963
31	51.0	10.6	58.3	14.6	81	27.2	1968
Monthly	49.3	9.6	57.4	14.1	87	30.6	1968*

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

13750

**NORFOLK, VIRGINIA**

STATION

STATION NAME

1946-1977

YEARS

**APRIL**

MONTH

DAY	MEAN TEMP			MAXIMUM TEMP			MINIMUM TEMP					
	AVERAGE			EXTREME			EXTREME					
	° F	° C		° F	° C	DATE	° F	° C	DATE			
1	54.5	12.5	64.5	18.1	78	25.6	1966	44.5	6.9	30	-1.1	1964
2	57.9	14.4	67.7	19.8	89	31.7	1967	48.2	9.0	29	-1.7	1964
3	56.3	13.5	65.9	18.8	89	31.7	1967	46.7	8.2	39	3.9	1965
4	55.6	13.1	64.6	18.1	83	28.3	1956	46.7	8.2	33	0.6	1954
5	55.2	12.9	64.4	18.0	82	27.8	1969	46.1	7.8	33	0.6	1964
6	55.6	13.1	63.8	17.7	84	28.9	1967*	47.3	8.3	34	1.1	1975
7	55.5	13.1	64.2	17.9	82	27.8	1967	46.8	8.2	32	0.0	1974*
8	55.0	12.8	63.7	17.6	86	30.0	1954	46.3	7.9	36	2.2	1972
9	54.5	12.5	63.1	17.3	85	29.4	1959	46.0	7.8	35	1.7	1972
10	54.7	12.6	62.8	17.1	83	28.3	1967*	46.5	8.1	37	2.8	1977*
11	55.8	13.2	64.8	18.2	83	28.3	1977*	46.9	8.3	35	1.7	1974
12	56.4	13.6	64.7	18.2	86	30.0	1977*	48.0	8.9	33	0.6	1973
13	55.8	13.2	64.7	18.2	87	30.6	1977	47.0	8.3	36	2.2	1957*
14	57.5	14.2	65.9	18.8	84	28.9	1977*	49.0	9.4	30	-1.1	1950
15	58.6	14.8	67.6	19.8	87	30.6	1949	49.5	9.7	33	0.6	1973
16	58.4	14.7	67.7	19.8	91	32.8	1976*	49.1	9.5	38	3.3	1962
17	58.1	14.5	67.2	19.6	89	31.7	1976	49.0	9.4	39	3.9	1962
18	61.8	16.6	71.9	22.2	86	30.0	1965	51.6	10.9	39	3.9	1962
19	62.8	17.1	72.5	22.5	87	30.6	1975*	53.1	11.7	40	4.4	1960
20	61.2	16.2	70.8	21.6	90	32.2	1976	51.6	10.9	38	3.3	1960
21	61.0	16.1	71.3	21.8	90	32.2	1957	50.7	10.4	38	3.3	1969
22	62.9	17.2	72.4	22.4	91	32.8	1952	53.3	11.8	40	4.4	1975
23	64.8	18.2	74.7	23.7	88	31.1	1960	54.9	12.7	44	6.7	1969
24	63.7	17.6	72.9	22.7	91	32.8	1960	54.5	12.5	42	5.6	1956
25	62.2	16.8	70.4	21.3	90	32.2	1960	54.0	12.2	43	6.1	1974*
26	61.8	16.6	70.4	21.3	91	32.8	1960	53.3	11.8	42	5.6	1974
27	60.9	16.1	69.4	20.8	89	31.7	1957	52.4	11.3	43	6.1	1976*
28	60.2	15.7	68.2	20.1	92	33.3	1957	52.2	11.2	42	5.6	1976
29	60.2	15.7	67.6	19.8	90	32.2	1974	52.7	11.5	41	5.0	1963
30	62.2	16.8	70.9	21.6	86	30.0	1956	53.5	11.9	44	6.7	1961
31												
Monthly	58.7	14.8	67.7	19.8	92	33.3	1957	49.7	9.8	29	-1.7	1964

**\*ALSO ON EARLIER YEARS**

**DIRNAVOCEANMET-SMOS**



## DAILY AVERAGE/EXTREME TEMPERATURES

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

13750

NORFOLK, VIRGINIA

1946-1977

MAY

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		AVERAGE		MINIMUM TEMP		DATE
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	
1	64.1	17.8	72.2	22.3	88	31.1	55.9	13.3	42	5.6	1963
2	64.3	17.9	72.9	22.7	88	31.1	55.7	13.2	43	6.1	1963*
3	63.6	17.6	72.4	22.4	93	33.9	54.9	12.7	40	4.4	1960
4	62.6	17.0	70.6	21.4	86	30.0	54.6	12.6	45	7.2	1966
5	63.0	17.2	71.5	21.9	90	32.2	54.5	12.5	42	5.6	1966
6	64.9	18.3	74.3	23.5	95	35.0	55.5	13.1	47	8.3	1973*
7	65.2	18.4	74.3	23.5	91	32.8	56.2	13.4	46	7.8	1964
8	64.9	18.3	74.5	23.6	94	34.4	55.4	13.0	40	4.4	1974
9	64.8	18.2	74.1	23.4	91	32.8	55.5	13.1	42	5.6	1976*
10	66.5	19.2	75.5	24.2	96	35.6	57.4	14.1	40	4.4	1966
11	67.2	19.6	75.8	24.3	90	32.2	58.6	14.8	37	2.8	1966
12	66.8	19.3	75.3	24.1	92	33.3	58.3	14.6	43	6.1	1963
13	66.5	19.2	74.9	23.8	92	33.3	58.1	14.5	40	4.4	1963
14	66.4	19.1	74.6	23.7	95	35.0	58.2	14.6	50	10.0	1960
15	66.5	19.2	74.7	23.7	91	32.8	58.3	14.6	48	8.9	1960
16	67.2	19.6	75.4	24.1	93	33.9	59.0	15.0	47	8.3	1966
17	68.5	20.3	77.4	25.2	92	33.3	59.7	15.4	46	7.8	1973
18	69.1	20.6	78.1	25.6	92	33.3	60.1	15.6	44	6.7	1973
19	69.6	20.9	78.2	25.7	92	33.3	61.0	16.1	48	8.9	1976
20	69.4	20.8	76.9	24.9	94	34.4	62.0	16.7	52	11.1	1956
21	68.6	20.3	76.2	24.6	91	32.8	60.9	16.1	50	10.0	1967*
22	68.6	20.3	77.0	25.0	91	32.8	60.2	15.7	50	10.0	1967
23	70.2	21.2	78.2	25.7	93	33.9	62.1	16.7	50	10.0	1963
24	69.7	20.9	77.7	25.4	92	33.3	61.6	16.4	47	8.3	1963
25	69.1	20.6	76.5	24.7	89	31.7	61.7	16.5	48	8.9	1963*
26	69.0	20.6	76.5	24.7	96	35.6	61.4	16.3	50	10.0	1967*
27	68.3	20.2	75.3	24.1	97	36.1	61.2	16.2	49	9.4	1976*
28	69.0	20.6	77.6	25.3	92	33.3	60.4	15.8	50	10.0	1961
29	69.9	21.1	77.4	25.2	93	33.9	62.3	16.8	53	11.7	1956
30	69.6	20.9	76.7	24.8	94	34.4	62.5	16.9	53	11.7	1956
31	70.4	21.3	77.5	25.3	93	33.9	63.3	17.4	53	11.7	1967
Monthly	67.2	19.6	75.5	24.2	97	36.1	58.9	14.9	37	2.8	1966

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

25 DAILY AVERAGE/EXTREME TEMP MAR 1978

JUNE

MONTH

1946-1977

YEARS

NORFOLK, VIRGINIA

STATION NAME

13750

STATION

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		AVERAGE		MINIMUM TEMP		DATE
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	
1	72.1	22.3	80.0	26.7	92	33.3	64.1	17.8	51	10.6	1967
2	72.6	22.6	80.9	27.2	95	35.0	64.2	17.9	47	8.3	1967
3	70.7	21.5	78.0	25.6	94	34.4	63.4	17.4	51	10.6	1967*
4	70.6	21.4	77.8	25.4	92	33.3	63.4	17.4	54	12.2	1965
5	71.9	22.2	79.7	26.5	95	35.0	64.1	17.8	49	9.4	1965
6	73.4	23.0	82.3	27.9	94	34.4	64.4	18.0	53	11.7	1965
7	74.3	23.5	82.4	28.0	95	35.0	66.2	19.0	58	14.4	1977*
8	74.1	23.4	82.1	27.8	94	34.4	66.1	18.9	57	13.9	1958
9	74.0	23.3	81.7	27.6	97	36.1	66.3	19.1	56	13.3	1962
10	74.8	23.8	82.8	28.2	100	37.8	66.8	19.3	59	15.0	1955
11	74.4	23.6	82.8	28.2	97	36.1	65.9	18.8	55	12.8	1972
12	75.4	24.1	84.1	28.9	95	35.0	66.7	19.3	54	12.2	1951
13	75.9	24.4	84.0	28.9	94	34.4	67.8	19.9	59	15.0	1951
14	75.0	23.9	82.6	28.1	95	35.0	67.4	19.7	60	15.6	1968
15	74.5	23.6	82.0	27.8	96	35.6	67.0	19.4	55	12.8	1961
16	74.6	23.7	81.8	27.7	95	35.0	67.3	19.6	59	15.0	1965
17	74.0	23.3	80.9	27.2	94	34.4	67.2	19.6	57	13.9	1961
18	74.7	23.7	82.0	27.8	96	35.6	67.5	19.7	57	13.9	1961
19	75.3	24.1	82.4	28.0	96	35.6	68.2	20.1	57	13.9	1961
20	76.4	24.7	83.8	28.8	96	35.6	69.0	20.6	60	15.6	1966*
21	76.7	24.8	84.6	29.2	96	35.6	68.8	20.4	57	13.9	1966
22	76.5	24.7	83.8	28.8	97	36.1	69.2	20.7	60	15.6	1966
23	77.0	25.0	84.4	29.1	94	34.4	69.7	20.9	56	13.3	1972
24	78.1	25.6	86.3	30.2	99	37.2	69.9	21.1	55	12.8	1972
25	79.1	26.2	87.4	30.8	99	37.2	70.8	21.6	59	15.0	1972
26	78.1	25.6	84.8	29.3	101	38.3	71.4	21.9	59	15.0	1972
27	78.9	26.1	86.3	30.2	100	37.8	71.5	21.9	60	15.6	1967
28	78.2	25.7	85.5	29.7	98	36.7	70.8	21.6	61	16.1	1967
29	78.0	25.6	85.7	29.8	99	37.2	70.3	21.3	60	15.6	1974
30	79.1	26.2	87.2	30.7	98	36.7	71.0	21.7	65	18.3	1958
31											
Monthly	75.3	24.1	83.0	28.3	101	38.3	67.6	19.8	47	8.3	1967

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMP MAR 1977

STATION 13750 NORFOLK, VIRGINIA STATION NAME 1946-1977 YEARS MONTH JULY

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		AVERAGE		EXTREME		DATE		AVERAGE		MINIMUM TEMP		EXTREME		DATE	
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C			° F	° C	° F	° C				
1	79.8	26.6	87.4	30.8	98	36.7	1959	72.2	22.3	65	18.3	1963	71.4	21.9	60	15.6	1963			
2	79.5	26.4	87.6	30.9	99	37.2	1956*	71.7	22.1	60	15.6	1962	71.3	21.8	65	18.3	1962			
3	79.7	26.5	87.7	30.9	97	36.1	1954	71.5	21.9	64	17.8	1967	71.5	21.9	64	17.8	1967			
4	78.6	23.9	85.9	29.9	96	35.6	1966	71.0	21.7	60	15.6	1972	71.0	21.7	62	16.7	1972			
5	79.0	26.1	86.5	30.3	97	36.1	1957	71.4	21.9	62	16.7	1963	71.4	21.9	61	16.1	1967			
6	77.9	23.5	85.2	29.6	95	35.0	1948	71.1	21.7	61	16.1	1972	71.1	21.7	58	14.4	1972			
7	77.9	23.5	84.8	29.3	95	35.0	1954	71.1	21.7	60	15.6	1962	71.1	21.7	60	15.6	1962			
8	77.9	23.5	84.8	29.3	96	35.6	1977	71.0	21.7	60	15.6	1972	71.0	21.7	62	16.7	1972			
9	78.0	23.6	85.0	29.4	94	34.4	1974	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
10	77.6	23.3	84.1	28.9	94	34.4	1974	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
11	77.3	23.2	83.2	28.4	94	34.4	1966	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
12	77.8	23.4	84.7	29.3	94	34.4	1957*	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
13	78.9	26.1	86.4	30.2	97	36.1	1966	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
14	80.0	26.7	86.8	30.4	96	35.6	1966	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
15	79.5	26.4	86.4	30.2	96	35.6	1974	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
16	79.3	26.3	85.7	29.8	95	35.0	1952	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
17	79.4	26.3	86.5	30.3	95	35.0	1955	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
18	80.1	26.7	88.1	31.2	97	36.1	1953	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
19	80.9	27.2	88.6	31.4	97	36.1	1952	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
20	80.9	27.2	88.2	31.2	96	35.6	1972*	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
21	80.1	26.7	87.6	30.9	99	37.2	1952	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
22	79.9	26.6	87.1	30.6	98	36.7	1952	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
23	80.2	26.8	87.8	31.0	100	37.8	1952	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
24	80.3	26.8	87.6	30.9	99	37.2	1972	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
25	79.3	26.3	86.0	30.0	98	36.7	1949	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
26	79.0	26.1	85.6	29.8	91	32.8	1965*	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
27	79.7	26.5	87.2	30.7	97	36.1	1952	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
28	80.3	26.8	87.4	30.8	97	36.1	1955*	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
29	79.7	26.5	86.6	30.3	96	35.6	1953*	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
30	79.6	26.4	86.6	30.3	99	37.2	1953	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
31	80.1	26.7	87.6	30.9	97	36.1	1954	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			
Monthly	79.3	26.3	86.5	30.3	100	37.8	1952	71.0	21.7	62	16.7	1963	71.0	21.7	61	16.1	1967			

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



## DAILY AVERAGE/EXTREME TEMPERATURES

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA13750  
STATIONNORFOLK, VIRGINIA  
STATION NAME

1946-1977

AUGUST  
MONTH

YEARS

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		AVERAGE		MINIMUM TEMP		DATE
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	
1	80.4	26.9	47.7	30.9	97	36.1	73.2	22.9	63	17.2	1964
2	79.4	26.3	45.8	29.9	96	35.6	73.0	22.8	63	18.3	1976
3	79.7	26.5	46.6	30.3	96	35.6	72.8	22.7	63	18.3	1964
4	79.0	26.1	45.3	29.6	97	36.1	72.7	22.6	63	17.2	1964
5	78.3	25.7	44.8	29.3	97	36.1	71.8	22.1	60	15.6	1976
6	78.0	25.6	45.1	29.5	98	36.7	70.9	21.6	63	17.2	1950*
7	78.2	25.7	45.4	29.7	100	37.8	71.1	21.7	63	18.3	1957*
8	79.2	26.2	46.1	30.1	97	36.1	72.3	22.4	63	18.3	1974*
9	79.8	26.6	47.3	30.7	93	35.0	72.4	22.4	63	18.3	1964
10	79.8	26.6	46.9	30.5	97	36.1	72.7	22.6	63	17.2	1964
11	78.8	26.0	45.3	29.6	97	36.1	72.3	22.4	62	16.7	1972
12	78.0	25.6	44.8	29.3	97	36.1	71.2	21.8	60	15.6	1974
13	78.0	25.6	45.1	29.5	95	35.0	71.0	21.7	63	17.2	1968*
14	79.0	26.1	45.9	29.9	96	35.6	72.1	22.3	60	15.6	1964
15	78.8	26.0	45.9	29.9	96	35.6	71.8	22.1	58	14.4	1964
16	78.7	25.9	45.8	29.9	97	36.1	71.5	21.9	60	15.6	1972
17	78.6	25.9	45.3	29.6	96	35.6	71.8	22.1	59	15.0	1972
18	78.4	25.8	44.5	29.2	96	35.6	72.3	22.4	66	18.9	1977*
19	78.8	26.0	45.9	29.9	95	35.0	71.7	22.1	65	18.3	1957
20	78.3	25.7	44.9	29.4	95	35.0	71.6	22.0	63	17.2	1964
21	78.2	25.7	44.4	29.1	97	36.1	71.9	22.2	63	17.2	1972
22	78.3	25.7	44.1	28.9	99	37.2	72.4	22.4	62	16.7	1972
23	77.6	25.3	43.2	28.4	95	35.0	72.0	22.2	64	17.8	1969
24	77.3	25.2	43.2	28.4	98	36.7	71.4	21.9	63	17.2	1971
25	77.1	25.1	43.7	28.7	98	36.7	70.5	21.4	61	16.1	1971
26	77.6	25.3	44.6	29.2	98	36.7	70.6	21.4	63	17.2	1977*
27	77.8	25.4	44.6	29.2	98	36.7	71.1	21.7	62	16.7	1963
28	78.3	25.7	45.0	29.4	96	35.6	71.5	21.9	62	16.7	1963
29	78.6	25.9	45.7	29.8	97	36.1	71.5	21.9	56	13.3	1963
30	78.4	25.8	45.7	29.8	95	35.0	71.1	21.7	53	11.7	1963
31	78.6	25.9	45.9	29.9	96	35.6	71.3	21.8	56	13.3	1963
Monthly	78.6	25.9	45.3	29.6	100	37.8	71.8	22.1	53	11.7	1963

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION 13750 NUREDLK, VIRGINIA 1946-1977 YEARS MONTH SEPTEMBER

DAY	MEAN TEMP		AVERAGE		EXTREME		DATE		AVERAGE		EXTREME		DATE	
	° F	° C	° F	° C	° F	° C			° F	° C	° F	° C		
1	77.8	25.4	84.3	29.1	95	35.0	1962		71.3	21.8	60	15.6	1946	
2	77.5	25.3	84.4	29.1	95	35.0	1962*		70.6	21.4	61	16.1	1958	
3	77.2	25.1	84.1	28.9	94	34.4	1977*		70.4	21.3	59	15.0	1967*	
4	76.8	24.9	83.1	28.4	93	33.9	1970*		70.4	21.3	59	15.0	1967	
5	76.8	24.9	83.2	28.4	94	34.4	1954*		70.4	21.3	60	15.6	1972	
6	75.7	24.3	81.7	27.6	95	35.0	1954		69.6	20.9	61	16.1	1976*	
7	75.1	23.9	81.2	27.3	100	37.8	1954		68.9	20.5	58	14.4	1963	
8	74.5	23.6	80.0	26.7	96	35.6	1954		68.9	20.5	61	16.1	1967*	
9	74.9	23.8	80.9	27.2	93	33.9	1946		68.8	20.4	61	16.1	1966*	
10	74.7	23.7	81.3	27.4	92	33.3	1946		68.0	20.0	56	13.3	1972	
11	74.3	23.5	80.7	27.1	92	33.3	1962		67.8	19.9	51	10.6	1972	
12	74.4	23.6	81.0	27.2	92	33.3	1957		67.7	19.8	59	15.0	1958	
13	73.5	23.1	80.5	26.9	91	32.8	1957*		66.5	19.2	56	13.3	1958	
14	73.3	22.9	80.0	26.7	92	33.3	1962		66.6	19.2	55	12.8	1958	
15	73.0	22.8	79.7	26.5	90	32.2	1957		66.4	19.1	57	13.9	1964	
16	73.3	22.9	79.7	26.5	91	32.8	1970*		66.9	19.4	59	15.0	1964	
17	73.2	22.9	78.8	26.0	92	33.3	1958		67.7	19.8	56	13.3	1966	
18	73.3	22.9	79.3	26.3	91	32.8	1970		67.3	19.6	55	12.8	1966	
19	73.9	23.3	80.6	27.0	93	33.9	1977		67.2	19.6	60	15.6	1974*	
20	73.2	22.9	79.4	26.4	90	32.2	1965*		66.9	19.4	58	14.4	1959	
21	73.1	22.8	79.8	26.6	92	33.3	1965		66.3	19.1	55	12.8	1962*	
22	71.4	21.9	77.7	23.4	92	33.3	1970		63.0	18.3	56	13.3	1956	
23	70.7	21.5	76.9	24.9	92	33.3	1970		64.5	18.1	54	12.2	1974	
24	69.8	21.0	76.2	24.6	91	32.8	1970		63.3	17.4	51	10.6	1974	
25	69.8	21.0	76.2	24.6	91	32.8	1970		63.5	17.5	51	10.6	1962	
26	70.0	21.1	76.4	24.7	93	33.9	1970		63.7	17.6	51	10.6	1974*	
27	70.0	21.1	76.4	24.7	91	32.8	1970		63.7	17.6	52	11.1	1974	
28	69.7	20.9	75.0	23.9	88	31.1	1954		64.3	17.9	52	11.1	1962	
29	68.7	20.4	74.8	23.8	89	31.7	1973		62.6	17.0	53	11.7	1962	
30	68.3	20.2	76.1	24.5	89	31.7	1954		60.6	15.9	50	10.0	1970*	
31														
Monthly	73.3	22.9	79.7	26.5	100	37.8	1954		66.9	19.4	50	10.0	1970*	

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

25 DAILY AVERAGE/EXTREME TEMP MAR 1978

STATION  
13750

STATION NAME  
NORFOLK, VIRGINIA

YEARS  
1946-1977

MONTH  
OCTOBER

DAY	MEAN TEMP		MAXIMUM TEMP			MINIMUM TEMP		
	AVERAGE ° F	° C	AVERAGE ° F	° C	EXTREME ° F	AVERAGE ° F	° C	EXTREME ° F
1	67.8	19.9	74.5	23.6	89	61.2	16.2	48
2	67.9	19.9	74.8	23.8	89	60.9	16.1	44
3	66.8	19.3	72.7	22.6	89	60.8	16.0	39
4	66.4	19.1	72.7	22.6	93	60.0	15.6	38
5	66.0	18.9	73.0	22.8	88	59.1	15.1	37
6	65.8	18.8	73.1	22.8	91	58.5	14.7	44
7	66.3	19.1	72.8	22.7	88	59.7	15.4	50
8	65.8	18.8	71.9	22.2	85	59.7	15.4	51
9	65.7	18.7	71.7	22.1	85	59.6	15.3	47
10	65.1	18.4	71.2	21.8	86	59.0	15.0	43
11	64.4	18.0	71.1	21.7	85	57.7	14.3	42
12	64.1	17.8	71.1	21.7	84	57.2	14.0	38
13	64.1	17.8	71.2	21.8	88	57.0	13.9	46
14	65.1	18.4	72.2	22.3	85	58.0	14.4	44
15	65.0	18.3	72.1	22.3	84	57.8	14.3	43
16	64.9	18.3	71.7	22.1	83	58.0	14.4	43
17	63.7	17.6	70.0	21.1	82	57.3	14.1	42
18	62.7	17.1	69.7	20.9	82	55.7	13.2	36
19	61.0	16.1	67.3	19.6	83	54.6	12.6	40
20	59.9	15.5	65.8	18.8	78	54.0	12.2	37
21	59.3	15.2	65.2	18.4	80	53.3	11.8	33
22	60.5	15.8	67.1	19.5	82	54.0	12.2	37
23	61.8	16.6	68.9	20.5	85	54.7	12.6	40
24	61.6	16.4	67.8	19.9	81	55.4	13.0	39
25	60.3	15.7	66.6	19.2	79	54.1	12.3	36
26	58.9	14.9	65.2	18.4	78	52.6	11.4	37
27	58.9	14.9	65.4	18.6	82	52.4	11.4	35
28	59.4	15.2	66.3	19.1	80	52.5	11.4	36
29	58.9	14.9	65.5	18.6	79	52.2	11.2	36
30	58.1	14.5	65.0	18.3	81	51.2	10.7	33
31	59.7	15.4	67.1	19.5	83	52.3	11.3	35
Monthly	63.1	17.3	69.7	20.9	93	56.5	13.6	33

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

13750

NORFOLK, VIRGINIA

1946-1977

NOVEMBER

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		EXTREME		AVERAGE		MINIMUM TEMP		DATE
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	
1	59.7	15.4	66.9	19.4	84	28.9	1971*	28.9	52.5	11.4	36	2.2	1975
2	60.5	15.8	67.9	19.9	81	27.2	1971*	27.2	53.1	11.7	40	4.4	1954
3	59.9	15.5	67.8	19.9	82	27.8	1950	27.8	51.9	11.1	35	1.7	1951
4	57.5	14.2	64.8	18.2	82	27.8	1974*	27.8	50.1	10.1	34	1.1	1963
5	56.0	13.3	62.8	17.1	82	27.8	1959	27.8	49.2	9.6	34	1.1	1966
6	55.2	12.9	61.9	16.6	83	28.3	1959	28.3	48.5	9.2	35	1.7	1962*
7	54.6	12.6	62.1	16.7	77	25.0	1975	25.0	47.0	8.3	32	0.0	1962
8	53.9	12.2	61.7	16.5	76	24.4	1965	24.4	46.1	7.8	32	0.0	1967
9	53.7	12.1	60.3	15.7	76	24.4	1948	24.4	47.1	8.4	30	-1.1	1967
10	54.3	12.4	61.1	16.2	78	25.6	1975*	25.6	47.5	8.6	34	1.1	1973
11	53.0	11.7	60.7	15.9	77	25.0	1964	25.0	45.3	7.4	35	1.7	1957
12	53.6	12.0	61.3	16.3	75	23.9	1975*	23.9	45.8	7.7	35	1.7	1957
13	53.9	12.2	61.0	16.1	79	26.1	1955	26.1	46.6	8.2	33	0.6	1977
14	54.0	12.2	61.8	16.6	80	26.7	1959	26.7	46.1	7.8	30	-1.1	1976
15	53.3	11.8	60.9	16.1	76	24.4	1973*	24.4	45.6	7.6	32	0.0	1969*
16	54.8	12.7	62.9	17.2	83	28.3	1955	28.3	46.7	8.2	27	-2.8	1967
17	52.9	11.6	60.9	16.1	73	22.8	1955	22.8	44.9	7.2	28	-2.2	1967
18	51.7	10.9	59.4	15.2	76	24.4	1968	24.4	44.0	6.7	31	-0.6	1959
19	52.3	11.3	60.1	15.6	79	26.1	1964	26.1	44.6	7.0	28	-2.2	1951
20	51.5	10.8	58.5	14.7	74	23.3	1948	23.3	44.5	6.9	30	-1.1	1951
21	50.9	10.5	58.6	14.8	77	25.0	1975	25.0	43.2	6.2	31	-0.6	1951
22	49.9	9.9	56.9	13.8	79	26.1	1953	26.1	42.9	6.1	32	0.0	1969*
23	48.7	9.3	56.4	13.6	73	22.8	1955	22.8	41.1	5.1	29	-1.7	1964
24	50.5	10.3	58.6	14.8	77	25.0	1973	25.0	42.5	5.8	24	-4.4	1970
25	49.1	9.5	56.7	13.7	80	26.7	1973	26.7	41.6	5.3	23	-5.0	1950
26	48.3	9.1	55.7	13.2	75	23.9	1946	23.9	40.9	4.9	21	-6.1	1950
27	51.0	10.6	58.9	14.9	81	27.2	1973	27.2	43.2	6.2	25	-3.9	1977
28	51.0	10.6	58.6	14.8	80	26.7	1973	26.7	43.5	6.4	28	-2.2	1974
29	47.3	8.5	54.1	12.3	74	23.3	1960	23.3	40.6	4.8	24	-4.4	1955
30	44.2	6.8	50.9	10.5	70	21.1	1975	21.1	37.4	3.0	25	-3.9	1976
31													
Monthly	52.9	11.6	60.3	15.7	84	28.9	1971*	28.9	45.5	7.5	21	-6.1	1950

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

13750

NORFOLK, VIRGINIA  
STATION NAME

1946-1977

DECEMBER

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME			
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C		
1	43.6	6.4	50.3	10.2	72	22.2	1946	36.8	2.7	27	-2.8	1964*
2	44.2	6.8	51.8	11.0	66	18.9	1970	36.6	2.6	26	-3.3	1976
3	47.2	8.4	55.1	12.8	71	21.7	1950	39.4	4.1	22	-5.6	1976
4	47.9	8.8	55.6	13.1	73	22.8	1973*	40.2	4.6	22	-5.6	1976
5	49.2	9.6	57.0	13.9	73	22.8	1972	41.4	5.2	29	-1.7	1963
6	47.6	8.7	55.8	13.2	73	22.8	1975*	39.3	4.1	26	-3.3	1954
7	47.6	8.7	55.6	13.1	78	25.6	1951	39.6	4.2	22	-5.6	1954
8	47.9	8.8	55.4	13.0	75	23.9	1951	40.4	4.7	22	-5.6	1976
9	46.7	8.2	54.2	12.3	75	23.9	1951	39.3	4.1	22	-5.6	1976
10	45.0	7.2	51.7	10.9	76	24.4	1966	38.3	3.5	23	-5.0	1977
11	44.9	7.2	52.8	11.6	74	23.3	1971	37.0	2.8	22	-5.6	1957
12	46.1	7.8	53.3	11.8	72	22.2	1964*	38.9	3.8	17	-8.3	1957
13	45.4	7.4	52.8	11.6	72	22.2	1956	37.9	3.3	14	-10.0	1962
14	44.2	6.8	50.7	10.4	70	21.1	1953	37.6	3.1	23	-5.0	1960
15	42.9	6.1	49.3	9.6	74	23.3	1975*	36.5	2.5	20	-6.7	1963
16	42.0	5.6	48.7	9.3	78	25.6	1971	35.2	1.8	18	-7.8	1958
17	42.3	5.7	49.4	9.7	69	20.6	1946	35.3	1.8	22	-5.6	1963
18	42.2	5.7	50.2	10.1	69	20.6	1961	34.2	1.2	21	-6.1	1963
19	41.5	5.3	48.3	9.1	67	19.4	1957	34.6	1.4	20	-6.7	1963
20	43.4	6.3	50.3	10.2	69	20.6	1957	36.4	2.4	17	-8.3	1963
21	42.9	6.1	49.2	9.6	69	20.6	1956	36.5	2.5	21	-6.1	1963
22	41.6	5.3	48.2	9.0	75	23.9	1967	35.0	1.7	20	-6.7	1976
23	42.5	5.8	50.7	10.4	71	21.7	1949	34.4	1.3	22	-5.6	1960
24	42.9	6.1	49.2	9.6	68	20.0	1971	36.6	2.6	24	-4.4	1976*
25	42.7	5.9	49.5	9.7	76	24.4	1964	35.8	2.1	23	-5.0	1966*
26	43.1	6.2	50.3	10.2	72	22.2	1964	36.0	2.2	19	-7.2	1948
27	42.2	5.7	49.1	9.5	73	22.8	1971	35.3	1.8	22	-5.6	1948
28	43.3	6.3	50.2	10.1	74	23.3	1971	36.4	2.4	20	-6.7	1977
29	43.5	6.4	50.5	10.3	74	23.3	1946	36.5	2.5	20	-6.7	1977
30	43.6	6.4	51.3	10.7	73	22.8	1971	35.8	2.1	21	-6.1	1962
31	43.5	6.4	50.4	10.2	69	20.6	1965	36.7	2.6	17	-8.3	1962
Monthly	44.3	6.8	51.5	10.8	78	25.6	1971*	37.1	2.8	14	-10.0	1962

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

# EXTREME VALUES

MAXIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

13750 STATION NORFOLK, VIRGINIA 45-77 YEARS

## WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45		75	89	87	88	99	98	92	90	81	80	60	
46	74	73		87	88	94		93	93		76	74	
47	75	64	69	84	92	97	95	94	94	85	69	66	97
48	66	76	87	86	87	98		97	90	79	81	68	
49	73	76	83	87	92	98	98	96	91	84	74	72	98
50	77	69		84	95	97	96	94	94	79	84	71	
51	72	74	72	89	92	98	95	97	92	88	76	78	98
52	75	66	83	91	87	101	100	94	92	89	77	72	101
53	72			87	93	92	99	96	94	82	79	72	
54	71	78	84	87	89	95	97	95	100	93	69	69	100
55	66		80	90	93	93	97	96	87	85	83	70	97
56	69	71	81	86	95	96	99	95	95	83	77	77	99
57	73	70	72	92	91	96	99	96	94	78	76	69	99
58	62	68	62	86	85	94	95	95	92	86	78	69	95
59	73	73	81	85	92	100	98	99	93	88	83	65	100
60	68	72	77	91	91	99	94	95	93	84		68	
61	63	73	81	88	89	91	95	93	94	80	82	69	95
62	66	72	77	89	94	92	90	97	95	85	68	60	97
63	67	68	81	87	93	93	96	95	90	85	73	64	96
64	66	64	80	85	93	100	92	95	90	80	79	76	100
65	73	76	76	86	97	93	95	93	92	81	76	69	97
66	73	67	82	84	90	91	97	93	91	81	78	76	97
67	76	70	83	89	89	93	92	90	84	85	73	75	93
68	68	63	87	83	89	97	97	98	88	89	80	68	98
69	67	57	70	86	94	98	95	91	91	79	71	72	98
70	77	65	70	86	92	94	94	94	93	86	73	71	94
71	67	71	76	85	85	96	93	93	88	84	84	78	96
72	69	80	82	91	86	90	99	95	91	81	81	73	99
73	69	68	85	85	87	95	92	95	92	88	81	73	95
74	76	72	83	90	92	93	96	91	89	82	82	70	96
MEAN													
S. D.													
TOTAL OBS.													

## 2

## (FROM DAILY OBSERVATIONS)

**13750**  
**STATION**

**NORFOLK, VIRGINIA**

45-77

YEARS

WHOLE DEGREES FAHRENHEIT

[illegible]

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## EXTREME VALUES

MAXIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

45-77

**NORFOLK, VIRGINIA**      **STATION NAME**

**13750**  
**STATION**

YEARS

WHOLE DEGREES FAHRENHEIT  
/BASED ON LESS THAN FULL MONTHS/

[illegible]

# EXTREME VALUES

## MINIMUM TEMPERATURE (FROM DAILY OBSERVATIONS)

19750

NORFOLK, VIRGINIA

STATION NAME

STATION

YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45		19	37	44	48	54	65	64	65	47	30	22	
46	23	30		40	47	59		60	58		35	26	
47	23	15	27	39	47	56	64	69	53	43	32	28	15
48	17	23	25	43	52	59		63	63	44	41	19	
49	30	31	27	43	52	59	70	68	54	52	32	30	27
50	28	23		30	46	60	68	63	52	52	21	22	
51	22	18	30	41	52	54	61	66	55	50	28	20	18
52	22	30	32	43	51	61	68	63	57	35	32	25	22
53	29			40	55	56	69	67	59	49	34	23	
54	21	26	30	33	48	60	65	66	58	43	36	22	21
55	22	18	25	40	50	58	65	68	63	45	24	21	18
56	25	27	29	39	42	57	67	67	55	53	31	30	25
57	17	29	36	36	49	62	65	64	59	39	35	17	17
58	22	12	34	41	50	57	68	67	55	47	29	18	12
59	19	25	28	40	52	60	68	66	58	45	31	28	19
60	23	26	22	38	40	61	63	72	62	43		19	
61	22	21	30	41	47	55	66	63	55	43	33	25	21
62	16	20	26	35	49	56	60	66	50	35	32	14	14
63	15	15	32	41	40	56	62	62	54	41	32	17	15
64	17	26	29	29	46	56	65	58	56	38	29	26	17
65	20	15	29	38	50	49	60	53	56	33	33	26	15
66	13	23	29	38	37	51	61	63	55	35	34	23	13
67	26	18	24	40	47	47	61	61	51	41	27	24	18
68	19		28	38	47	59	64	60	59	43	35	23	
69	21	27	27	36	44	62	68	63	54	36	32	27	21
70	11	18	31	36	49	58	67	69	50	45	24	28	11
71	21	20	30	38	46	61	65	61	58	53	36	32	20
72	10	25	36	35	52	55	56	59	51	41	32	23	10
73	22	15	32	33	44	60	63	69	60	46	34	24	15
74	26	25	28	32	40	56	60	60	51	33	26	31	25
MEAN													
S. D.													
TOTAL OBS.													

MINIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

NORFOLK, VIRGINIA

23750

STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE
STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE

**YEARS**

WHOLE DEGREES FAHRENHEIT

[illegible]

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## PSYCHROMETRIC SUMMARY

13750

NORFOLK, VIRGINIA

73-77

YEARS

JAN

MONTH

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		D.B./W.B.	TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	Dry Bulb	Wet Bulb		Dew Point	
78/ 77								.1										1				
76/ 75							.1											3				
74/ 73			.1			.2	.3											9				
72/ 71		.1		.2		.1												4				
70/ 69		.1		.2	.1													7				
68/ 67		.1	.3	.1				.1										8	2	2		
66/ 65		.2	.6	.1	.2	.2	.2	.1										15	9	2		
64/ 63	.1	1.2	.2	.1	.2	.2	.2	.2										27	19	7		
62/ 61		.6	.4	.4	.1	.3	.1	.3										27	20	19		
60/ 59		.5	.7	.4	.4	.4	.1	.1										26	14	19		
58/ 57		.6	.4	.4	.2	.4	.1	.1										28	20	14		
56/ 55	.1	.4	.5	.4	.6	.4	.2	.2										31	29	19		
54/ 53	.2	.7	1.2	.5	.2	.3	.1											40	23	17		
52/ 51	.2	.7	.8	.6	.4	.4	.2	.1										42	38	21		
50/ 49	.2	.9	.7	.6	.6		.1											39	39	29		
48/ 47	.6	1.4	.7	1.2	.7	.5	.1											64	49	37		
46/ 45	.5	2.4	1.6	.9	.4	.2	.2											77	55	42		
44/ 43	.8	1.5	1.7	.8	.6	.2	.1											70	67	56		
42/ 41	.3	1.4	2.0	1.5	.3	.1												69	61	48		
40/ 39	.8	2.4	2.0	2.3	.8	.1												104	74	57		
38/ 37	.2	2.1	1.9	1.1	.7	.2												77	93	49		
36/ 35	.2	1.1	2.0	1.6	.6	.2												71	78	53		
34/ 33	.2	1.3	2.3	1.4	.5													70	83	62		
32/ 31	.2	1.4	1.8	1.4	.6													67	69	68		
30/ 29	.2	.4	1.5	2.1	.2													55	62	59		
28/ 27	.1	.5	2.5	2.3														66	55	53		
26/ 25		.8	1.8	1.3														48	56	58		
24/ 23		.5	1.7	1.1														40	82	37		
22/ 21		.2	.8	.6														19	50	38		
20/ 19	.1	.2	.6	.1														12	37	48		
18/ 17			.6	.1														9	22	40		
16/ 15			.6															7	7	38		
14/ 13		.2	.1															4	4	30		
12/ 11																			9	34		
Element (X)	ΣX <sup>2</sup>			ΣX			X̄			σ <sub>x</sub>			No. Obs.			Mean No. of Hours with Temperature					Total	
Rel. Hum.																≥ 93 F					Total	
Dry Bulb																≥ 80 F						
Wet Bulb																≥ 73 F						
Dew Point																≥ 67 F						
																≥ 52 F						
																≥ 40 F						
																≥ 32 F						
																≥ 24 F						
																≥ 16 F						
																≥ 8 F						
																≥ 0 F						
																≥ -16 F						
																≥ -32 F						
																≥ -48 F						
																≥ -64 F						
																≥ -80 F						
																≥ -96 F						

NAWWEASERVCOM





# PSYCHROMETRIC SUMMARY

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77  
YEARS

FEB  
MONTH

PAGE 1  
HOURS (L.S.T.)

PSYCHROMETRIC SUMMARY JAN 68

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL			
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
82/ 81						.1	.1		.1	.1								1	1			
80/ 79						.1	.1		.1	.1								3	3			
78/ 77							.2		.1	.1		.1						4	4			
76/ 75				.1	.2			.1	.2									5	5			
74/ 73			.1	.1	.1	.1	.2	.1	.1	.1	.1							5	5			
72/ 71			.1	.1	.1	.2	.1	.1	.1	.1	.1							8	8	3		
70/ 69		.1	.3	.1	.1	.2	.4		.2	.2	.2							11	11	4	1	
68/ 67		.1	.1	.1	.1	.2	.2		.2	.3	.3							13	13	4	5	
66/ 65		.3	.4	.1	.1	.4	.3	.1	.2	.1	.1							20	20	4	7	
64/ 63	.1	.4	.1	.2	.6	.4	.4	.4	.3	.1	.1							33	33	12	3	
62/ 61	.1	.1	.1	.4	.4	.3	.1	.6	.3	.1								27	27	13	6	
60/ 59	.2	.9	.8	.4	.5	.4	.5	.5	.4									51	51	17	10	
58/ 57	.1	.4	.4	.4	.4	.3	.9	.6	.2									41	41	27	8	
56/ 55		.9	.4	.6	.3	.6	.5	.1										38	38	25	16	
54/ 53	.2	.9	.4	.4	.4	.4	.4	.3										38	38	38	23	
52/ 51	.2	.5	.4	.2	.8	1.0	.4											38	38	42	33	
50/ 49		1.2	.9	.8	.4	.6	.5	.1										50	50	40	24	
48/ 47	.2	.5	.4	.8	.8	.7	.1											39	39	51	35	
46/ 45	.2	1.1	.8	1.0	1.2	.8	.2											58	58	51	29	
44/ 43	.3	1.2	1.2	2.1	2.0	.7												85	85	59	39	
42/ 41		.8	1.7	1.8	1.5	.4												69	69	48	25	
40/ 39	.2	1.3	2.2	2.0	1.2	.1												80	80	68	30	
38/ 37	.1	1.1	2.2	2.8	2.4													97	97	93	30	
36/ 35	.3	.7	2.2	2.1	1.0													71	71	86	52	
34/ 33	.4	.6	1.6	2.2	.5													60	60	89	60	
32/ 31		.8	1.5	1.9	.4													52	52	81	64	
30/ 29		.4	1.7	1.3	.4													43	43	69	80	
28/ 27		.1	1.7	1.2	.3													37	37	54	66	
26/ 25			1.1	.7														20	20	47	69	
24/ 23			.6	.4														12	12	36	54	
22/ 21		.3	.4	.2														9	9	33	58	
20/ 19		.2	.1															3	3	15	50	
18/ 17		.1	.3															4	4	9	37	
16/ 15		.1	.2															3	3	3	53	
Element (X)	$\Sigma X$																$\bar{X}$		$\sigma_x$		Mean No. of Hours with Temperature	
Ref. Hum.																					≥ 80 F	
Dry Bulb																					≥ 73 F	
Wet Bulb																					≥ 67 F	
Dew Point																					≥ 93 F	
Total																					Total	

NAVWEASERVCOM

**838**  
**MONTH**

05 PSYCHROMETRIC SUMMARY JAN 68

JAN 68

**PAGE 2**  
**HOURS (L.S.T.)**

[illegible]

**NAVWEASERVCOM**

# PSYCHROMETRIC SUMMARY

13730  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

MAR  
MONTH

PAGE 1  
HOURS (L.S.T.)

58

PSYCHROMETRIC SUMMARY

JAN 68

1000

1000

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		Dew Point				
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30		≥ 31	Dry Bulb		Wet Bulb			
86/ 85						.1	.1											1	1					
84/ 83						.1	.1											2	2					
82/ 81				.1			.1	.3										6	6					
80/ 79							.1	.1	.1	.2								5	5					
78/ 77				.1	.2	.1	.1	.1	.2	.1	.1							8	8	3				
76/ 75				.2	.3	.1	.4	.2	.2	.1		.1						15	15					
74/ 73				.3	.5	.2	.3	.2	.1									15	15	1				
72/ 71			.2	.4	.3	.2	.2	.2	.2	.1	.1							21	21	2				
70/ 69			.5	.3	.2	.2	.2	.2	.2	.1								21	21	10				
68/ 67		.2	1.1	.6	.4	.2	.1	.1	.2	.2	.1							35	35	12				
66/ 65		.7	.8	.5	.5	.4	.1	.1	.2	.1								41	41	29				
64/ 63		1.0	.4	.8	.2	.6	.2	.1	.2	.1	.1							46	46	14				
62/ 61	.2	1.0	.6	.7	.6	.3	.2	.5	.1	.2								57	57	39				
60/ 59	.2	.6	1.0	.7	.5	.6	.3	.2	.1									49	49	44				
58/ 57	.3	.9	.7	1.0	.4	.6	.5	.6	.1									63	63	41				
56/ 55	.4	1.5	1.6	.7	.5	.6	.7	.4	.1									80	80	48				
54/ 53	.5	.6	.9	.6	.6	.7	.7	.2										60	60	45				
52/ 51	.6	1.4	1.1	1.1	1.0	.6	.8	.1										82	82	64				
50/ 49	1.0	1.9	1.2	2.1	1.6	.6	.2											105	105	58				
48/ 47	1.3	2.4	1.2	1.5	1.3	.6	.4											108	108	50				
46/ 45	1.4	1.3	1.7	1.4	1.6	.9	.1											103	103	61				
44/ 43	.4	1.1	1.4	1.3	1.6	.3	.1											77	77	84				
42/ 41	.2	.7	1.5	1.7	1.5	.4	.1											74	74	51				
40/ 39	.2	.4	1.9	1.0	1.0	.2												74	74	41				
38/ 37	.1	.2	1.2	.6	.4	.2												57	57	111				
36/ 35	.1	.1	1.3	.6	.6	.1												33	33	73				
34/ 33	.1	.2	.2	.4	.5													35	35	57				
32/ 31	.1	.1	.1	.4	.4													18	18	82				
30/ 29		.2	.2	.3	.1													13	13	67				
28/ 27																		9	9	23				
26/ 25				.1																16				
24/ 23																		1	1	54				
22/ 21																				40				
20/ 19																				16				
																				4				
																				1				
																				1				
																				25				
Element (X)	ΣX <sup>2</sup>																ΣX	Σ̄	Mean No. of Hours with Temperature				Total	
Rel. Hum.																			≥ 80 F				≥ 93 F	
Dry Bulb																			≥ 73 F					
Wet Bulb																			≥ 67 F					
Dew Point																			≥ 60 F					

Mean No. of Hours with Temperature

≥ 80 F

≥ 73 F

≥ 67 F

≥ 60 F

≥ 53 F

≥ 46 F

≥ 39 F

≥ 32 F

≥ 25 F

≥ 18 F

≥ 11 F

≥ 4 F

≥ -3 F

≥ -10 F

≥ -17 F

≥ -24 F

≥ 80 F

≥ 73 F

≥ 67 F

≥ 60 F

≥ 53 F

≥ 46 F

≥ 39 F

≥ 32 F

≥ 25 F

≥ 18 F

≥ 11 F

≥ 4 F

≥ -3 F

≥ -10 F

≥ -17 F

≥ -24 F

≥ 80 F

≥ 73 F

≥ 67 F

≥ 60 F

≥ 53 F

≥ 46 F

≥ 39 F

≥ 32 F

≥ 25 F

≥ 18 F

≥ 11 F

≥ 4 F

≥ -3 F

≥ -10 F

≥ -17 F

≥ -24 F

≥ 80 F

≥ 73 F

≥ 67 F

≥ 60 F

≥ 53 F

≥ 46 F

≥ 39 F

≥ 32 F

≥ 25 F

≥ 18 F

≥ 11 F

≥ 4 F

≥ -3 F

≥ -10 F

≥ -17 F

≥ -24 F

≥ 80 F

≥ 73 F

≥ 67 F

≥ 60 F

≥ 53 F

≥ 46 F

≥ 39 F

≥ 32 F

≥ 25 F

≥ 18 F

≥ 11 F

≥ 4 F

≥ -3 F

≥ -10 F

≥ -17 F

≥ -24 F

≥ 80 F

≥ 73 F

≥ 67 F

≥ 60 F

≥ 53 F

≥ 46 F

≥ 39 F

≥ 32 F

≥ 25 F

≥ 18 F

≥ 11 F

≥ 4 F

≥ -3 F

≥ -10 F

≥ -17 F

≥ -24 F

≥ 80 F

≥ 73 F

≥ 67 F

≥ 60 F

≥ 53 F

≥ 46 F

≥ 39 F

≥ 32 F

≥ 25 F

≥ 18 F

≥ 11 F

≥ 4 F

≥ -3 F

≥ -10 F

≥ -17 F

≥ -24 F

≥ 80 F

≥ 73 F

≥ 67 F

≥ 60 F

≥ 53 F

≥ 46 F

≥ 39 F

≥ 32 F

≥ 25 F

≥ 18 F

≥ 11 F

≥ 4 F

≥ -3 F

≥ -10 F

≥ -17 F

≥ -24 F

≥ 80 F

≥ 73 F

≥ 67 F

≥ 60 F

≥ 53 F

≥ 46 F

≥ 39 F

≥ 32 F

≥ 25 F

≥ 18 F

≥ 11 F

≥ 4 F

≥ -3 F

≥ -10 F

≥ -17 F

≥ -24 F

≥ 80 F

≥ 73 F

≥ 67 F

≥ 60 F

≥ 53 F

≥ 46 F

≥ 39 F

≥ 32 F

≥ 25 F

≥ 18 F

≥ 11 F

≥ 4 F

≥ -3 F

≥ -10 F

≥ -17 F

≥ -24 F

≥ 80 F

≥ 73 F

≥ 67 F

≥ 60 F

≥ 53 F

≥ 46 F

≥ 39 F

≥ 32 F

≥ 25 F





# PSYCHROMETRIC SUMMARY

5100

PSYCHROMETRIC SUMMARY

JAN 68

5100

13750  
STATION

NORFOLK, VIRGINIA

73-77

APR

MONTH

YEARS

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
90/ 89										.1	.2							3	3		
88/ 87										.2	.1			.1				4	4		
86/ 85									.1	.1	.1							4	4		
84/ 83									.2	.2	.1		.1					12	12		
82/ 81									.4	.4	.1	.2	.1					15	15		
80/ 79					.2	.1	.2	.2	.2	.2	.1							15	15		
78/ 77				.2	.4	.4	.6	.5	.2	.3	.3	.1						36	36		
76/ 75				.1	.5	.4	.2	.4	.2	.2	.1	.2						28	28		
74/ 73			.2	.7	.4	.7	.6	.4	.2	.1	.2							43	43		
72/ 71			.7	.6	.7	.7	.5	.3	.1	.2	.1							47	47	1	
70/ 69		.2	.9	.6	.8	.6	.2	.3	.3											13	2
68/ 67	.2	.4	.7	.6	.7	.7	.6	.1	.4	.4								48	48	21	17
66/ 65		.7	.6	.7	1.0	.4	.7	.2	.3	.1	.1							57	57	44	23
64/ 63	.1	.8	1.0	1.2	.5	1.2	.9	.6	.7	.1								85	85	57	40
62/ 61	.2	.6	.3	.8	.4	.8	.7	.8	.7									67	67	72	44
60/ 59	.1	.3	1.2	1.2	.5	.6	1.3	.9	.3									78	78	59	46
58/ 57		.5	1.3	.9	.9	.7	.7	.4	.1									67	67	65	42
56/ 55		.9	.8	.6	1.7	1.1	1.0	.2	.1									76	76	56	53
54/ 53		.9	1.0	1.4	1.7	1.3	.7	.2	.1									90	90	79	62
52/ 51	.1	.7	1.0	.9	1.7	1.0	.7											73	73	77	60
50/ 49	.1	.3	.8	1.0	1.6	1.2	.4	.2										67	67	71	57
48/ 47		.3	1.1	1.2	.6	.5	.2											47	47	100	45
46/ 45		.6	1.5	.9	.6	1.0	.2											57	57	88	49
44/ 43		1.0	1.2	.3	1.0	.7												52	52	91	49
42/ 41		.1	.6	.5	1.0	.2												28	28	80	70
40/ 39		.1	.8	.4	.6													23	23	50	70
38/ 37			.2	.2	.6													12	12	34	61
36/ 35		.1	.1	.3	.2													8	8	41	66
34/ 33																				24	83
32/ 31																				13	51
30/ 29																				8	28
28/ 27																				1	38
26/ 25																					37
24/ 23																					26
Element (X)	ΣX <sup>2</sup>																ΣX		Mean No. of Hours with Temperature		
Rel. Hum.																			Total		
Dry Bulb																					
Wet Bulb																					
Dew Point																					

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# PSYCHROMETRIC SUMMARY

576 PSYCHROMETRIC SUMMARY JAN 68

13730 NORFOLK, VIRGINIA STATION NAME

73-77

MAY MONTH

PAGE 1 (S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb
92/ 91									.1								1	1	
90/ 89									.2								2	2	
88/ 87					.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0	1.1	1.2	8	8	
86/ 85				.2	.3	.4	.5	.6	.7	.8	.9	1.0	1.1	1.2	1.3	1.4	16	16	
84/ 83			.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0	1.1	1.2	1.3	1.4	35	35	
82/ 81				.4	.5	.6	.7	.8	.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	34	34	2
80/ 79			.2	.3	.4	.5	.6	.7	.8	.9	1.0	1.1	1.2	1.3	1.4	1.5	56	56	9
78/ 77				.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	77	77	13
76/ 75			.4	1.0	1.6	2.2	2.8	3.4	4.0	4.6	5.2	5.8	6.4	7.0	7.6	8.2	72	72	36
74/ 73			.9	1.5	2.1	2.7	3.3	3.9	4.5	5.1	5.7	6.3	6.9	7.5	8.1	8.7	88	88	46
72/ 71	.2	.9	1.5	2.1	2.7	3.3	3.9	4.5	5.1	5.7	6.3	6.9	7.5	8.1	8.7	9.3	107	107	79
70/ 69	.2	1.5	2.3	3.1	3.9	4.7	5.5	6.3	7.1	7.9	8.7	9.5	10.3	11.1	11.9	12.7	113	113	93
68/ 67	.2	2.0	2.6	3.2	3.8	4.4	5.0	5.6	6.2	6.8	7.4	8.0	8.6	9.2	9.8	10.4	107	107	76
66/ 65	.1	1.7	2.3	2.9	3.5	4.1	4.7	5.3	5.9	6.5	7.1	7.7	8.3	8.9	9.5	10.1	107	107	119
64/ 63	.4	1.5	2.7	3.9	5.1	6.3	7.5	8.7	9.9	11.1	12.3	13.5	14.7	15.9	17.1	18.3	129	129	118
62/ 61	.6	1.0	2.5	4.0	5.5	7.0	8.5	10.0	11.5	13.0	14.5	16.0	17.5	19.0	20.5	22.0	105	105	92
60/ 59	.6	.9	1.0	.9	.8	.7	.6	.5	.4	.3	.2	.1	.1	.2	.3	.4	63	63	119
58/ 57	.5	1.0	.7	1.2	.7	.3	.4	.1	.1	.1	.1	.1	.1	.1	.1	.1	61	61	106
56/ 55	.2	1.1	.9	.3	.9	.9	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	58	58	104
54/ 53	.2	.9	.6	.8	.4	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	40	40	73
52/ 51	.6	.5	.5	.2	.3	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	24	24	73
50/ 49	.2	.3	.3	.4	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	18	18	44
48/ 47	.1	.1	.1	.2	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	8	8	46
46/ 45			.3	.2	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	2	2	34
44/ 43				.2	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	4	4	12
42/ 41																			11
40/ 39																			8
38/ 37																			3
36/ 35																			
34/ 33																			
32/ 31																			
30/ 29																			
28/ 27																			
26/ 25																			

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# PSYCHROMETRIC SUMMARY

13750

NORFOLK, VIRGINIA

73-77

YEARS

JUN

1968

PAGE 1

HOURS (L.S.T.)

PSYCHROMETRIC SUMMARY JAN 68

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		Dew Point				
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb					
96/ 95								.1	.2	.1	.1							1	1						
94/ 93								.1	.2	.3								6	6						
92/ 91						.1	.2	.6	.2	.3								17	17						
90/ 89						.2	.6	.4	.2									18	18						
88/ 87					.1	.6	.8	.9	.4	.1	.1							36	36						
86/ 85				.2	.9	1.3	.7	.7	.2	.2								50	50						
84/ 83			.1	1.2	2.0	1.4	.8	.6	.2									76	76						
82/ 81		.1	.2	1.2	1.5	.7	1.0	.6	.2	.1								69	69	5					
80/ 79			1.1	3.0	2.2	1.4	.7	.2	.1									106	106	17					
78/ 77		1.0	2.4	3.7	1.5	.7	.6	.4	.4									130	130	60					
76/ 75		1.5	4.1	3.4	1.6	1.0	.6	.2	.1									149	149	111					
74/ 73	.2	2.2	4.6	2.2	1.3	.5	.4											138	138	179					
72/ 71	.3	2.4	3.3	1.9	1.4	.4	.2	.1	.1	.1								124	124	195					
70/ 69	.1	.9	2.2	1.4	.7	.3	.2	.2	.2									74	74	154					
68/ 67	.2	.9	3.2	1.4	.2	.3	.1	.2		.1								79	79	126					
66/ 65		.7	2.1	.5	.4	.2	.2	.2										51	51	94					
64/ 63		.3	1.0	.6	.5	.3		.2										35	35	97					
62/ 61		.2	.1	.3	.6	.2	.1	.1										20	20	60					
60/ 59		.7	.2	.2	.2													17	17	26					
58/ 57		.2	.1															4	4	27					
56/ 55																				18					
54/ 53																				22					
52/ 51																				7					
50/ 49																				2					
48/ 47																									
46/ 45																				14					
44/ 43																				5					
42/ 41																				6					
40/ 39																				3					
38/ 37																				5					
36/ 35																				2					
34/ 33																				2					
32/ 31																				1					
																				1					
Element (X)	ΣX <sup>2</sup>																ΣX	ΣX	ΣX	Mean No. of Hours with Temperature				TOTAL	
Rel. Hum.																				≤ 0 F	≥ 73 F	≥ 80 F	≥ 93 F	Total	
Dry Bulb																									
Wet Bulb																									
Dew Point																									

Mean No. of Hours with Temperature

No. Obs.

$\sigma_x$

$\bar{x}$

$\sum x$

$\sum x^2$

Element (X)

Ref. Hum.

Dry Bulb

Wet Bulb

Dew Point

≥ 80 F

≥ 73 F

≥ 67 F

≤ 32 F

≤ 0 F

≥ 93 F

Total

NAVWEASERVCOM



## PSYCHROMETRIC SUMMARY

**STATION**  
**13750**

**NORFOLK, VIRGINIA**

73-77

YEARS

JUN  
MONTH

MONTH

**PAGE 2**  
HOURS (L.

HOURS (L.S.T.)

[illegible]

## PSYCHROMETRIC SUMMARY

13750  
STATIONNORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

JUL  
MONTHPAGE 1  
HOURS (L.S.T.)

5000

PSYCHROMETRIC SUMMARY

JAN 68

5000

5000

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
98/ 97							.1	.2		.1	.1							1	1			
96/ 95							.1	.2		.1	.1							5	5			
94/ 93							.7	.9	.6	.1	.2							17	17			
92/ 91							.1	.7	.5	.2	.2							33	33			
90/ 89				.1	.2	.7	1.1	.7	.2	.2	.2			.1				36	36			
88/ 87				.2	.9	1.6	1.0	.6	.3	.2	.1	.2						62	62			
86/ 85		.1	.6	.9	1.6	1.6	1.8	.5	.2	.1	.2							73	73			
84/ 83		.1	1.0	2.0	2.0	1.3	1.3	1.1	.2	.2	.2							103	103	5		
82/ 81		.3	1.8	2.6	2.2	1.3	.6	.7	.5	.2								125	125	32	5	
80/ 79		.7	2.8	2.5	2.1	1.6	1.2	.6	.6	.1								151	151	86	25	
78/ 77	.1	2.3	5.6	2.1	1.7	1.0	.7	.5	.2									176	176	148	56	
76/ 75	.3	3.1	5.3	2.8	1.3	.8	.4	.6										182	182	182	137	
74/ 73	.3	1.7	4.2	2.7	1.4	.9	.2	.2										143	143	206	199	
72/ 71	.9	1.9	1.9	1.0	.6	.4	.6											67	67	170	171	
70/ 69	.1	.9	.7	.4	.6	.5	.1											40	40	138	160	
68/ 67	.2	.6	.6	.2	.1	.1												14	14	100	130	
66/ 65		.4	.1	.1	.1													7	7	79	89	
64/ 63		.1	.1	.1	.1													3	3	49	65	
62/ 61			.1	.1														2	2	28	55	
60/ 59																				11	46	
58/ 57																				4	31	
56/ 55																				2	20	
54/ 53																					25	
52/ 51																					23	
50/ 49																					3	
TOTAL	.810	225.1	17.7	14.7	13.1	8.1	5.3	3.1	1.0	.6	.2	.1						1240	1240	1240	1240	

Element (X)	ΣX <sup>2</sup>	ΣX	X̄	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature							Total
Rel. Hum.	6822988	90270	72.6	14.246	1240	≥ 80 F	≥ 73 F	≥ 67 F	≥ 32 F	≥ 0 F	≥ 93 F	Total	
Dry Bulb	7808993	98131	79.1	5.898	1240	324.0	664.2	736.6	664.2	324.0	13.8	744.0	
Wet Bulb	6520036	89702	72.3	4.999	1240	44.4	395.4	640.2	395.4	44.4		744.0	
Dew Point	5959786	85600	69.0	6.392	1240	18.0	318.6	529.8	318.6	18.0		744.0	

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# PSYCHROMETRIC SUMMARY

13750 NORFOLK, VIRGINIA 73-77 AUG 1968  
 STATION NAME YEARS MONTH DAY  
 1478 2097-94321

PAGE 1  
 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
98/ 97									.1	.2								3	3			
96/ 95							.2	.3	.5	.2								14	14			
94/ 93						.2	.5	.2	.2	.1	.1	.1						17	17			
92/ 91					.1		.2	.5	.1		.1							12	12			
90/ 89				.1	.4	.7	.6	.5	.3	.1								34	34			
88/ 87			.1	.6	1.1	1.4	.6	.2	.1									50	50			
86/ 85			.4	.6	1.5	1.9	1.0	.4		.1								71	71			
84/ 83		.1	1.8	1.3	2.8	.7	.5	.1										90	90	14		
82/ 81		.4	2.3	3.5	2.1	.7	.6	.1										121	121	37	5	
80/ 79	.2	1.5	4.0	3.1	1.8	1.0	.2	.1	.1									147	147	86	37	
78/ 77		2.9	5.0	3.1	1.6	.7	.2	.4										173	173	135	80	
76/ 75	.2	2.5	4.7	2.0	1.2	.4	.6	.1	.2	.1								147	147	205	126	
74/ 73	.4	2.1	4.4	2.3	.5	.7	.3											134	134	197	186	
72/ 71		3.1	2.8	1.1	1.5	.6	.3	.2										119	119	173	181	
70/ 69	.1	1.9	.8	1.0	.5	.1		.2										55	55	147	220	
68/ 67	.1	.6	.6	.8	.5	.3	.1											37	37	96	111	
66/ 65		.2	.1	.2	.3	.1	.1											11	11	45	90	
64/ 63				.2	.1													3	3	50	55	
62/ 61																				26	33	
60/ 59		.1	.1															2	2	15	34	
58/ 57																				11	33	
56/ 55																				3	15	
54/ 53																					6	
52/ 51																					7	
50/ 49																					1	
48/ 47																					4	
46/ 45																					1	
44/ 43																						
TOTAL	.915	.227	1.119	.815	.9	9.7	6.0	3.1	1.5	.6	.2	.1						1240	1240	1240	1240	

Element (X)	ΣX <sup>2</sup>	ΣX	X̄	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	7390494	94402	76.1	12.819	1240	≥ 93 F	≥ 80 F	≥ 73 F	≥ 67 F	≥ 60 F	Total	
Dry Bulb	7660311	97151	78.3	6.273	1240	734.4	607.8	295.2	20.4		744.0	
Wet Bulb	6550694	89898	72.5	5.179	1240	654.0	404.4	48.0			744.0	
Dew Point	6076009	86469	69.7	6.110	1240	567.6	334.2	25.2			744.0	

Mean No. of Hours with Temperature

No. Obs.

$\sigma_x$

$\bar{x}$

$\Sigma x$

$\Sigma x^2$

Element (X)

Rel. Hum.

Dry Bulb

Wet Bulb

Dew Point

Total

734.4

607.8

295.2

20.4

744.0

634.0

404.4

48.0

744.0

567.6

334.2

25.2

744.0



# PSYCHROMETRIC SUMMARY

13750 STATION NORFOLK, VIRGINIA 73-77 YEARS 5500 SEP MONTH 5500 PSYCHROMETRIC SUMMARY JAN 68 5500

PAGE 1 (S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
92/ 91							.2	.1	.1	.1								3	3			
90/ 89						.1	.2	.1	.1	.1								8	8			
88/ 87						.2	.9	.5	.1			.1						21	21			
86/ 85				.1	.7	.8	.2	.2	.2									28	28			
84/ 83			.3	.7	.8	.8	.4	.3	.1									43	43			
82/ 81		.4	.5	1.2	1.4	.5	.6	.2	.3	.2	.1							66	66	4		
80/ 79		.4	1.1	1.7	1.0	1.1	.1	.2	.5									72	72	12	6	
78/ 77	.1	1.5	2.0	2.1	1.4	1.1	.7	.3	.3									115	115	49	13	
76/ 75	.4	2.0	3.9	2.5	.8	1.0	.7	.2										139	139	102	53	
74/ 73	.6	3.2	3.7	1.7	1.0	1.1	.4	.2		.2	.1							146	146	113	85	
72/ 71	.2	1.0	5.2	2.0	1.0	.6	.8	.1		.1								132	132	145	107	
70/ 69	.2	2.0	3.7	2.2	1.3	1.0	.7			.1								135	135	135	128	
68/ 67	.1	2.2	3.4	1.2	.9	.7	.4	.2	.1									110	110	130	135	
66/ 65	.1	.8	1.9	1.4	1.2	.2	.3											72	72	142	111	
64/ 63	.1	.5	.5	.7	1.0	.9	.6											51	51	105	111	
62/ 61		.1	.1	.5	.5	.7	.1											24	24	75	96	
60/ 59		.1	.2	.3	.5													14	14	54	69	
58/ 57		.1	.1	.2		.2												8	8	39	48	
56/ 55		.1	.4		.2													9	9	30	49	
54/ 53			.1		.2													3	3	32	37	
52/ 51					.1													1	1	23	50	
50/ 49																				3	26	
48/ 47																				4	21	
46/ 45																				2	14	
44/ 43																				1	17	
42/ 41																					12	
40/ 39																					5	
38/ 37																					5	
36/ 35																					2	
TOTAL	1.8	14.4	27.2	18.7	14.2	11.1	7.2	2.6	1.8	.6	.2	.1	.1					1200	1200	1200	1200	
		</																				

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# PSYCHROMETRIC SUMMARY

13730

NORFOLK, VIRGINIA

73-77

YEARS

OCT

MONTH

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
88/ 87						.1	.1	.2	.1									3	3		
86/ 85						.2	.2	.3	.2									2	2		
84/ 83						.3	.3	.4	.3									5	5		
82/ 81			.1	.2	.1	.1	.2	.1	.2									7	7		
80/ 79			.2	.4	.3	.2	.1	.2	.2									6	6		
78/ 77			.3	.5	.4	.3	.2	.3	.2	.1								17	17	3	1
76/ 75	.1	.6	.6	.5	.4	.5	.1	.6	.2	.1								28	28	1	
74/ 73	.1	.6	.6	.5	.4	.5	.1	.6	.2	.1								44	44	12	5
72/ 71		1.1	1.0	.5	.4	.4	.3	.3	.2	.1								50	50	29	14
70/ 69	.1	1.2	1.1	1.3	.2	.8	.6	.3	.2	.1								72	72	42	23
68/ 67	.6	1.4	1.9	1.6	.6	1.1	.6	.3	.3	.1								103	103	56	45
66/ 65	.3	2.1	2.2	1.9	1.1	1.5	.4	.4	.3	.1								129	129	56	46
64/ 63	.2	2.4	2.4	1.5	1.7	1.0	.9	.6	.2	.1								136	136	94	65
62/ 61		2.0	1.5	2.3	2.4	1.2	.6	.4	.1	.1								131	131	81	60
60/ 59		1.7	.9	1.8	1.9	1.4	.5	.2	.2									107	107	102	83
58/ 57		.4	1.2	.9	1.4	1.1	.2											65	65	105	84
56/ 55		.4	1.7	1.9	1.5	1.1	.3	.1	.1									88	88	99	51
54/ 53		.5	1.0	1.2	.3	.5	.1											45	45	94	49
52/ 51		.2	1.0	.9	.5	.6												39	39	100	78
50/ 49		.6	.5	.5	.7	.5	.2											36	36	82	84
48/ 47	.1	.3	.8	.2	.6	.4												31	31	71	79
46/ 45		.3	.7	.1	.8	.9												35	35	51	79
44/ 43			.2	.6	.9	.3												25	25	33	68
42/ 41		.2	.2	.6	.5	.1												18	18	34	50
40/ 39		.2	.2	.2	.3													9	9	20	50
38/ 37	.1	.1	.1	.3														7	7	23	40
36/ 35				.1														1	1	32	29
34/ 33				.1														1	1	12	24
32/ 31																				6	22
30/ 29																				1	22
28/ 27																				1	16
26/ 25																					17
24/ 23																					23
22/ 21																					14
Element (X)	$\Sigma X^2$		$\Sigma X$		$\bar{X}$		$\sigma_x$		No. Obs.		Mean No. of Hours with Temperature						Total				
Rel. Hum.											≤ 0 F		≤ 32 F		≤ 67 F		≥ 80 F		≥ 93 F		
Dry Bulb																					
Wet Bulb																					
Dew Point																					

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150 MONTH

**PAGE 2**  
**HOURS (L.S.T.)**

[illegible]



## PSYCHROMETRIC SUMMARY

13750  
STATIONNORFOLK, VIRGINIA  
STATION NAME

73-77

YEARS

NOV  
MONTHPAGE 1  
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		Dew Point	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Wet Bulb	
82/ 81								.1	.2	.1								3	3	
80/ 79								.1	.3	.1								5	5	
78/ 77					.1	.2	.3	.2	.3	.2								7	7	
76/ 75				.1	.3	.2	.3	.2	.1	.1	.2							13	13	
74/ 73				.5	.2	.2	.1	.2	.2	.2	.2							20	20	
72/ 71			.6	.4	.1	.2	.2	.2	.2	.2	.2							21	21	
70/ 69		.3	.6	.5	.6	.2	.2	.1	.1	.1								29	29	11
68/ 67	.2	.5	.9	.1	.7	.5	.1	.2	.2	.2								38	38	31
66/ 65	.6	1.0	.3	.7	.4	.4	.2	.4	.1	.1								49	49	43
64/ 63	.5	1.2	1.0	1.4	.6	.4	.1	.2	.3	.2	.2							71	71	37
62/ 61	.5	1.2	.7	1.2	.6	.7	.3	.2	.1	.1								66	66	43
60/ 59	.2	.6	1.3	.6	.9	.4	.2	.4	.2	.1								57	57	32
58/ 57		.4	.9	.6	.7	.5	.3	.6	.1	.1								49	49	30
56/ 55	.1	1.3	.7	.6	.2	.5	.3	.2	.2	.1								47	47	38
54/ 53		.2	.7	.7	.9	.3	.3	.1										40	40	49
52/ 51		.4	.6	1.0	1.4	.8	.7	.1										60	60	43
50/ 49	.1	1.0	1.8	1.3	1.4	1.3	.6	.1										92	92	28
48/ 47	.1	2.0	1.9	1.1	1.6	1.5	.3											102	102	41
46/ 45	.2	1.2	1.5	1.7	1.7	1.4	.2	.1										96	96	51
44/ 43	.2	.9	.7	2.0	1.7	.7	.1											78	78	48
42/ 41		.4	1.4	1.5	1.4	.8												67	67	64
40/ 39		.6	1.4	1.4	1.2													55	55	46
38/ 37		.5	1.2	1.4	.7	.2												49	49	45
36/ 35		.4	.7	.7	.5	.1												30	30	50
34/ 33		.1	.9	1.1	.2													27	27	54
32/ 31		.2	.2	.4	.1													12	12	55
30/ 29		.2	.4	.2														9	9	70
28/ 27			.1	.3														5	5	54
26/ 25			.2	.1														3	3	53
24/ 23																				6
22/ 21																				4
20/ 19																				45
18/ 17																				45
16/ 15																				36
Element (X)	$\Sigma X^2$		$\Sigma X$		X		$\sigma_x$		No. Obs.		Mean No. of Hours with Temperature						Total			
Rel. Hum.																				
Dry Bulb																				
Wet Bulb																				
Dew Point																				

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# PSYCHROMETRIC SUMMARY

05 PSYCHROMETRIC SUMMARY JAN 68

13750 NORFOLK, VIRGINIA

73-77

ALL MONTH

PAGE 1 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
98/ 97																		4	4		
96/ 95																		20	20		
94/ 93																		40	40		
92/ 91																		66	66		
90/ 89																		101	101		
88/ 87																		184	184		
86/ 85																		241	241		
84/ 83																		347	347		
82/ 81																		448	448		
80/ 79																		544	544		
78/ 77																		723	723		
76/ 75																		786	786		
74/ 73																		769	769		
72/ 71																		685	685		
70/ 69																		609	609		
68/ 67																		621	621		
66/ 65																		571	571		
64/ 63																		643	643		
62/ 61																		548	548		
60/ 59																		503	503		
58/ 57																		421	421		
56/ 55																		463	463		
54/ 53																		393	393		
52/ 51																		414	414		
50/ 49																		488	488		
48/ 47																		489	489		
46/ 45																		546	546		
44/ 43																		482	482		
42/ 41																		413	413		
40/ 39																		415	415		
38/ 37																		335	335		
36/ 35																		282	282		
34/ 33																		236	236		
32/ 31																		192	192		
Element (X)																	Mean No. of Hours with Temperature		Total		
Rel. Hum.																	≥ 80 F		≥ 93 F		
Dry Bulb																	≥ 73 F				
Wet Bulb																	≥ 67 F				
Dew Point																	≤ 32 F				
																	≤ 0 F				
</																					





# MEANS AND STANDARD DEVIATIONS

5707 MEANS AND STANDARD DEVIATIONS JAN 68

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

73-77

NORFOLK, VIRGINIA

STATION

STATION NAME

YEARS

HRS.(LST.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN 39.3 S. D. 11.906 TOTAL OBS 155	MEAN 41.6 S. D. 10.977 TOTAL OBS 155	MEAN 48.9 S. D. 9.278 TOTAL OBS 155	MEAN 54.8 S. D. 9.649 TOTAL OBS 155	MEAN 62.4 S. D. 7.133 TOTAL OBS 155	MEAN 71.4 S. D. 5.244 TOTAL OBS 155	MEAN 75.0 S. D. 3.804 TOTAL OBS 155	MEAN 74.8 S. D. 4.287 TOTAL OBS 155	MEAN 70.2 S. D. 5.314 TOTAL OBS 155	MEAN 58.7 S. D. 8.388 TOTAL OBS 155	MEAN 49.3 S. D. 10.413 TOTAL OBS 155	MEAN 41.8 S. D. 10.531 TOTAL OBS 155	MEAN 57.4 S. D. 15.342 TOTAL OBS 1826
04	MEAN 38.6 S. D. 11.960 TOTAL OBS 155	MEAN 40.3 S. D. 11.051 TOTAL OBS 155	MEAN 47.5 S. D. 9.371 TOTAL OBS 155	MEAN 52.8 S. D. 9.659 TOTAL OBS 155	MEAN 61.4 S. D. 6.933 TOTAL OBS 155	MEAN 70.3 S. D. 4.950 TOTAL OBS 155	MEAN 73.9 S. D. 4.034 TOTAL OBS 155	MEAN 73.8 S. D. 4.176 TOTAL OBS 155	MEAN 69.1 S. D. 5.396 TOTAL OBS 155	MEAN 57.7 S. D. 8.558 TOTAL OBS 155	MEAN 48.2 S. D. 10.081 TOTAL OBS 155	MEAN 41.1 S. D. 10.646 TOTAL OBS 155	MEAN 56.3 S. D. 15.348 TOTAL OBS 1826
07	MEAN 37.5 S. D. 11.866 TOTAL OBS 155	MEAN 39.4 S. D. 10.978 TOTAL OBS 155	MEAN 47.5 S. D. 9.577 TOTAL OBS 155	MEAN 54.6 S. D. 9.226 TOTAL OBS 155	MEAN 64.1 S. D. 6.510 TOTAL OBS 155	MEAN 72.9 S. D. 4.818 TOTAL OBS 155	MEAN 76.4 S. D. 2.962 TOTAL OBS 155	MEAN 75.4 S. D. 3.808 TOTAL OBS 155	MEAN 70.0 S. D. 5.123 TOTAL OBS 155	MEAN 57.7 S. D. 8.739 TOTAL OBS 155	MEAN 47.2 S. D. 10.074 TOTAL OBS 155	MEAN 40.4 S. D. 10.660 TOTAL OBS 155	MEAN 57.0 S. D. 16.276 TOTAL OBS 1826
10	MEAN 40.8 S. D. 12.116 TOTAL OBS 155	MEAN 44.9 S. D. 11.819 TOTAL OBS 155	MEAN 53.2 S. D. 10.381 TOTAL OBS 155	MEAN 61.6 S. D. 10.259 TOTAL OBS 155	MEAN 69.8 S. D. 7.345 TOTAL OBS 155	MEAN 78.2 S. D. 6.082 TOTAL OBS 155	MEAN 81.5 S. D. 3.742 TOTAL OBS 155	MEAN 80.7 S. D. 4.897 TOTAL OBS 155	MEAN 75.4 S. D. 5.523 TOTAL OBS 155	MEAN 63.4 S. D. 8.140 TOTAL OBS 155	MEAN 53.5 S. D. 10.538 TOTAL OBS 155	MEAN 44.0 S. D. 10.028 TOTAL OBS 155	MEAN 62.3 S. D. 16.773 TOTAL OBS 1826
13	MEAN 44.8 S. D. 13.179 TOTAL OBS 155	MEAN 49.6 S. D. 13.071 TOTAL OBS 155	MEAN 57.0 S. D. 11.611 TOTAL OBS 155	MEAN 65.4 S. D. 11.298 TOTAL OBS 155	MEAN 72.2 S. D. 7.995 TOTAL OBS 155	MEAN 80.8 S. D. 6.879 TOTAL OBS 155	MEAN 84.6 S. D. 5.141 TOTAL OBS 155	MEAN 83.8 S. D. 6.546 TOTAL OBS 155	MEAN 78.2 S. D. 6.768 TOTAL OBS 155	MEAN 66.2 S. D. 8.640 TOTAL OBS 155	MEAN 57.5 S. D. 11.616 TOTAL OBS 155	MEAN 47.1 S. D. 10.797 TOTAL OBS 155	MEAN 65.7 S. D. 16.953 TOTAL OBS 1826
16	MEAN 45.3 S. D. 12.755 TOTAL OBS 155	MEAN 50.2 S. D. 12.953 TOTAL OBS 155	MEAN 57.5 S. D. 11.404 TOTAL OBS 155	MEAN 66.1 S. D. 10.971 TOTAL OBS 155	MEAN 72.4 S. D. 8.356 TOTAL OBS 155	MEAN 80.3 S. D. 7.231 TOTAL OBS 155	MEAN 84.4 S. D. 5.829 TOTAL OBS 155	MEAN 83.0 S. D. 6.613 TOTAL OBS 155	MEAN 77.6 S. D. 6.609 TOTAL OBS 155	MEAN 66.0 S. D. 8.398 TOTAL OBS 155	MEAN 57.3 S. D. 11.670 TOTAL OBS 155	MEAN 47.3 S. D. 10.361 TOTAL OBS 155	MEAN 65.7 S. D. 16.618 TOTAL OBS 1826
19	MEAN 41.9 S. D. 11.666 TOTAL OBS 155	MEAN 46.1 S. D. 11.670 TOTAL OBS 155	MEAN 53.1 S. D. 9.685 TOTAL OBS 155	MEAN 60.5 S. D. 10.236 TOTAL OBS 155	MEAN 67.8 S. D. 7.891 TOTAL OBS 155	MEAN 76.7 S. D. 6.378 TOTAL OBS 155	MEAN 80.4 S. D. 4.968 TOTAL OBS 155	MEAN 78.8 S. D. 5.518 TOTAL OBS 155	MEAN 73.4 S. D. 5.834 TOTAL OBS 155	MEAN 61.7 S. D. 7.878 TOTAL OBS 155	MEAN 52.4 S. D. 10.757 TOTAL OBS 155	MEAN 43.9 S. D. 9.811 TOTAL OBS 155	MEAN 61.5 S. D. 16.035 TOTAL OBS 1826
22	MEAN 40.0 S. D. 11.358 TOTAL OBS 155	MEAN 43.7 S. D. 11.065 TOTAL OBS 155	MEAN 50.7 S. D. 9.312 TOTAL OBS 155	MEAN 56.7 S. D. 9.884 TOTAL OBS 155	MEAN 64.3 S. D. 7.484 TOTAL OBS 155	MEAN 73.5 S. D. 5.584 TOTAL OBS 155	MEAN 76.9 S. D. 4.347 TOTAL OBS 155	MEAN 76.5 S. D. 4.692 TOTAL OBS 155	MEAN 71.4 S. D. 5.526 TOTAL OBS 155	MEAN 59.6 S. D. 8.078 TOTAL OBS 155	MEAN 50.5 S. D. 10.674 TOTAL OBS 155	MEAN 42.7 S. D. 10.056 TOTAL OBS 155	MEAN 58.9 S. D. 15.522 TOTAL OBS 1826
ALL HOURS	MEAN 41.0 S. D. 12.368 TOTAL OBS 1240	MEAN 44.5 S. D. 12.279 TOTAL OBS 1128	MEAN 51.9 S. D. 10.748 TOTAL OBS 1240	MEAN 59.1 S. D. 11.196 TOTAL OBS 1200	MEAN 66.8 S. D. 8.501 TOTAL OBS 1240	MEAN 75.5 S. D. 7.043 TOTAL OBS 1200	MEAN 79.1 S. D. 5.899 TOTAL OBS 1240	MEAN 78.3 S. D. 6.274 TOTAL OBS 1240	MEAN 73.2 S. D. 6.666 TOTAL OBS 1200	MEAN 61.4 S. D. 8.957 TOTAL OBS 1240	MEAN 52.0 S. D. 11.319 TOTAL OBS 1200	MEAN 43.5 S. D. 10.619 TOTAL OBS 1240	MEAN 60.6 S. D. 16.497 TOTAL OBS 14608

# MEANS AND STANDARD DEVIATIONS

5707 MEANS AND STANDARD DEVIATIONS JAN 68

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

73-77

NORFOLK, VIRGINIA

STATION

STATION NAME

YEARS

HRS.(LST.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN 36.0 S. D. 12.208 TOTAL OBS 155	37.0 10.656 141 155	44.4 9.714 155	48.8 9.760 150	57.8 7.605 155	67.1 5.740 150	70.6 4.669 155	71.0 4.655 155	65.9 6.605 150	53.9 9.364 155	44.6 11.001 150	38.1 10.968 155	53.0 15.534 1826
04	MEAN 35.4 S. D. 12.065 TOTAL OBS 154	36.1 10.889 141 155	43.5 10.009 155	47.8 10.088 150	57.1 7.893 155	66.5 5.687 150	70.0 4.890 155	70.4 4.643 155	65.3 6.718 150	53.2 9.658 155	43.8 10.703 150	37.7 11.147 155	52.3 15.656 1825
07	MEAN 34.6 S. D. 12.074 TOTAL OBS 154	35.4 10.997 141 155	43.7 10.268 155	49.2 9.661 150	59.1 7.685 155	68.4 5.286 150	71.4 4.227 155	71.5 4.621 155	66.1 6.515 150	53.5 9.521 155	43.2 10.797 150	37.2 11.165 155	52.9 16.271 1825
10	MEAN 37.0 S. D. 12.029 TOTAL OBS 154	39.1 11.143 141 155	47.4 10.433 155	52.8 9.971 150	61.9 7.881 155	70.6 5.681 150	73.6 4.692 155	73.9 5.166 155	68.5 6.344 150	56.5 9.104 155	47.3 10.973 150	39.7 10.614 155	55.8 16.003 1825
13	MEAN 39.3 S. D. 12.348 TOTAL OBS 155	41.9 11.426 141 155	49.5 10.461 155	54.3 9.823 150	62.5 7.756 155	71.1 5.798 150	74.4 5.045 155	74.6 5.324 155	69.4 6.589 150	57.5 9.004 155	49.2 11.133 150	41.6 10.584 155	57.2 15.515 1826
16	MEAN 39.5 S. D. 11.817 TOTAL OBS 155	42.1 10.912 141 155	49.7 10.002 155	54.4 9.126 150	62.7 7.707 155	70.9 5.630 150	74.4 4.923 155	74.4 5.305 155	69.0 6.337 150	57.4 8.790 155	49.1 11.176 150	41.7 10.189 155	57.2 15.229 1826
19	MEAN 37.6 S. D. 11.583 TOTAL OBS 155	39.8 10.674 141 155	47.0 9.337 155	51.8 9.200 150	60.5 7.685 155	69.4 5.634 150	72.8 4.761 155	72.5 5.134 155	67.2 6.470 150	55.4 8.924 155	46.5 11.054 150	39.4 10.208 155	55.1 15.369 1826
22	MEAN 36.3 S. D. 11.421 TOTAL OBS 155	38.4 10.554 141 155	45.7 9.528 155	49.8 9.485 150	58.9 7.705 155	68.0 5.667 150	71.5 4.773 155	71.7 4.855 155	66.4 6.556 150	54.1 9.035 155	45.3 11.101 150	38.8 10.518 155	53.8 15.428 1826
ALL HOURS	MEAN 37.0 S. D. 12.028 TOTAL OBS 1237	38.7 11.121 1128	46.4 10.207 1240	51.1 9.909 1200	60.0 7.979 1240	69.0 5.867 1200	72.3 4.999 1240	72.5 5.179 1240	67.2 6.660 1200	55.2 9.300 1240	46.1 11.172 1200	39.3 10.767 1240	54.7 15.729 14605



# MEANS AND STANDARD DEVIATIONS

5707 MEANS AND STANDARD DEVIATIONS JAN 68

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

13750 NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

HRS.(LST.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	29.5 16.631 155	29.5 14.017 155	38.5 13.360 155	42.3 12.823 150	54.1 9.778 155	64.5 7.105 150	68.3 5.947 155	69.1 5.550 155	63.1 8.472 150	49.2 12.246 155	38.3 14.412 150	31.8 14.995 155	48.3 18.764 1826
04	29.2 16.143 154	28.9 14.204 154	38.0 13.615 155	42.2 12.995 150	53.5 10.286 155	64.3 7.044 150	68.0 6.029 155	68.7 5.650 155	62.7 8.645 150	48.7 12.649 155	37.8 14.047 150	31.7 14.978 155	47.9 18.799 1825
07	28.5 16.089 154	28.3 14.332 154	38.5 13.681 155	43.3 12.781 150	55.1 10.393 155	65.9 6.660 150	68.8 5.755 155	69.6 5.759 155	63.6 8.433 150	49.5 12.184 155	37.6 14.083 150	31.6 14.743 155	48.5 19.201 1825
10	29.9 16.148 154	29.8 15.007 154	40.3 14.418 155	43.9 13.701 150	55.9 11.224 155	66.7 6.999 150	69.9 6.434 155	70.8 6.476 155	64.5 8.318 150	50.4 12.536 155	39.9 14.827 150	32.8 14.856 155	49.7 19.316 1825
13	30.6 16.268 155	30.8 15.306 155	41.1 14.393 155	43.8 13.690 150	55.5 11.383 155	66.2 7.678 150	69.5 7.139 155	70.4 6.571 155	64.6 8.821 150	50.0 12.900 155	39.9 15.466 150	33.5 14.735 155	49.8 19.127 1826
16	30.7 15.838 155	31.0 14.605 155	41.1 14.012 155	43.4 13.158 150	55.9 10.969 155	66.1 7.287 150	69.8 6.920 155	70.4 6.577 155	64.2 8.685 150	50.1 12.798 155	39.7 15.602 150	33.4 14.659 155	49.8 18.959 1826
19	30.3 15.686 155	30.5 14.199 155	39.9 12.945 155	43.1 12.464 150	55.0 10.455 155	65.5 7.174 150	69.1 6.544 155	69.5 6.192 155	63.6 8.522 150	49.7 12.309 155	39.2 14.853 150	32.3 14.463 155	49.1 18.660 1826
22	29.6 15.426 155	30.0 14.009 155	39.5 12.991 155	42.8 12.473 150	54.7 9.972 155	65.0 7.114 150	68.7 6.125 155	69.4 5.824 155	63.5 8.329 150	49.1 12.099 155	38.7 14.652 150	32.2 14.672 155	48.7 18.634 1826
ALL HOURS	29.8 16.003 1237	29.9 14.448 1128	39.6 13.695 1240	43.1 12.994 1200	55.0 10.571 1240	65.5 7.162 1200	69.0 6.392 1240	69.7 6.110 1240	63.7 8.526 1200	49.6 12.444 1240	38.9 14.735 1200	32.4 14.739 1240	49.0 18.942 14605



# RELATIVE HUMIDITY

5706 RELATIVE HUMIDITY JAN 68

13750 STATION

NORFOLK, VIRGINIA

73-77

PERIOD

JAN MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	01	100.0	100.0	98.7	91.6	78.7	64.5	51.0	34.8	16.1	69.7	155
	04	100.0	100.0	99.4	94.8	80.5	66.9	51.9	35.1	18.2	70.6	154
	07	100.0	100.0	100.0	95.5	83.8	68.8	52.6	35.7	20.8	70.9	154
	10	100.0	100.0	98.7	91.6	77.3	58.4	42.9	27.3	12.3	66.4	154
	13	100.0	100.0	96.1	82.6	62.6	45.8	31.0	19.4	7.7	60.1	155
	16	100.0	100.0	94.2	80.0	63.9	47.7	32.3	18.1	5.8	59.5	155
	19	100.0	100.0	98.7	87.7	72.3	58.7	41.9	27.7	12.3	65.6	155
	22	100.0	100.0	99.4	92.9	80.6	61.3	45.8	28.4	16.1	68.1	155
TOTALS		100.0	100.0	98.2	89.6	75.0	59.0	43.7	28.3	13.7	66.4	1237

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# RELATIVE HUMIDITY

5706 RELATIVE HUMIDITY JAN 68

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

PERIOD

FEB  
MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	01	100.0	100.0	99.3	92.2	75.2	53.9	35.5	19.1	8.5	63.8	141
	04	100.0	100.0	100.0	92.9	79.4	58.9	39.7	19.9	7.1	65.1	141
	07	100.0	100.0	99.3	96.5	78.0	58.9	36.2	22.7	9.2	65.9	141
	10	100.0	100.0	97.9	79.4	56.7	35.5	24.8	17.7	7.8	57.9	141
	13	100.0	100.0	85.8	65.2	42.6	27.0	22.0	14.2	5.0	51.9	141
	16	100.0	100.0	80.9	63.8	46.1	29.1	19.9	14.2	7.1	51.6	141
	19	100.0	100.0	93.6	77.3	61.0	39.0	26.2	12.8	5.0	57.3	141
	22	100.0	100.0	97.9	87.9	67.4	46.1	28.4	19.1	7.8	60.6	141
TOTALS		100.0	100.0	94.3	81.9	63.3	43.6	29.1	17.5	7.2	59.3	1128

## RELATIVE HUMIDITY

13750	NORFOLK, VIRGINIA	73-77	MAR
STATION	STATION NAME	PERIOD	MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	01	100.0	100.0	99.4	91.0	79.4	71.0	50.3	28.4	12.9	69.3	155
	04	100.0	100.0	100.0	93.5	81.9	73.5	56.1	34.8	14.8	71.4	155
	07	100.0	100.0	100.0	98.7	81.3	71.6	58.1	41.3	18.7	72.8	155
	10	100.0	100.0	98.7	84.5	72.3	54.2	36.1	26.5	11.0	64.3	155
	13	100.0	99.4	91.6	74.8	61.3	46.5	34.2	18.7	9.0	59.2	155
	16	100.0	98.7	86.5	75.5	58.7	45.8	30.3	19.4	10.3	58.7	155
	19	100.0	100.0	96.1	85.8	68.4	54.2	41.3	25.8	11.6	64.2	155
	22	100.0	100.0	98.1	91.6	81.3	64.5	43.9	27.7	13.5	67.9	155
TOTALS		100.0	99.8	96.3	84.9	73.1	60.2	43.8	27.8	12.7	66.0	1240



# RELATIVE HUMIDITY

STATION	13750
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NORFOLK, VIRGINIA

STATION NAME

22-77

PERIOD

APR  
MONTH

MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	01	100.0	100.0	100.0	92.7	76.0	61.3	40.7	12.7	2.7	64.3	150
	04	100.0	100.0	100.0	96.7	82.7	64.7	50.0	29.3	4.7	68.7	150
	07	100.0	100.0	99.3	96.0	80.7	64.0	44.7	25.3	7.3	67.3	150
	10	100.0	100.0	96.7	76.7	50.0	32.7	20.0	9.3	2.0	54.5	150
	13	100.0	100.0	85.3	58.0	36.7	26.0	17.3	7.3	2.0	48.7	150
	16	100.0	98.0	80.0	57.3	34.7	22.0	15.3	7.3	1.3	47.2	150
	19	100.0	100.0	92.7	78.7	53.3	33.3	23.3	11.3	3.3	55.4	150
	22	100.0	100.0	98.7	86.7	73.3	52.7	32.0	12.0	1.3	61.7	150
TOTALS		100.0	99.8	94.1	80.4	60.9	44.6	30.4	14.3	3.1	58.5	1200

# RELATIVE HUMIDITY

5706 RELATIVE HUMIDITY JAN 68

PRINTED BY THE STANDARD REGISTRY COMPANY, U. S. A.

MAY  
MONTH

73-77  
PERIOD

NORFOLK, VIRGINIA  
STATION NAME

13750  
STATION

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	01	100.0	100.0	100.0	99.4	92.3	81.9	65.8	43.2	14.2	75.7	155
	04	100.0	100.0	100.0	97.4	93.5	83.2	71.0	46.5	18.1	76.9	155
	07	100.0	100.0	100.0	97.4	89.7	81.9	61.3	40.6	12.9	74.3	155
	10	100.0	100.0	96.8	89.0	76.8	54.2	39.4	19.4	4.5	63.5	155
	13	100.0	100.0	94.8	80.0	63.9	45.2	31.0	14.2	3.9	58.7	155
	16	100.0	100.0	93.5	83.2	64.5	47.1	27.7	16.8	3.9	59.1	155
	19	100.0	100.0	98.7	91.0	78.7	60.0	40.6	25.8	9.0	66.1	155
	22	100.0	100.0	100.0	98.1	90.3	76.8	58.1	35.5	12.9	72.8	155
TOTALS		100.0	100.0	98.0	91.9	81.2	66.3	49.4	30.3	9.9	68.4	1240

# RELATIVE HUMIDITY

5706 RELATIVE HUMIDITY JAN 68

JUN  
MONTH

73-77  
PERIOD

NORFOLK, VIRGINIA  
STATION NAME

13750  
STATION

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	01	100.0	100.0	100.0	99.3	98.7	95.3	80.7	54.7	10.7	79.7	150
	04	100.0	100.0	100.0	99.3	98.7	95.3	86.0	65.3	13.3	81.8	150
	07	100.0	100.0	100.0	99.3	99.3	93.3	82.7	52.0	12.0	79.5	150
	10	100.0	100.0	100.0	99.3	93.3	76.0	46.0	14.0	.7	68.8	150
	13	100.0	100.0	99.3	95.3	82.0	56.0	30.0	12.0	1.3	62.7	150
	16	100.0	100.0	99.3	95.3	78.7	57.3	34.0	14.7	4.0	64.0	150
	19	100.0	100.0	100.0	97.3	90.0	74.0	56.0	24.0	4.0	69.9	150
	22	100.0	100.0	100.0	98.7	95.3	88.7	73.3	40.7	9.3	76.0	150
TOTALS		100.0	100.0	99.8	98.0	92.0	79.5	61.1	34.7	6.9	72.8	1200



# RELATIVE HUMIDITY

13750  
STATION

**NORFOLK, VIRGINIA**

73-77

**MONTH**  
**JUL**

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	01	100.0	100.0	100.0	100.0	99.4	94.2	85.8	56.8	11.6	80.2	155
	04	100.0	100.0	100.0	100.0	99.4	96.1	89.0	71.0	12.9	82.6	155
	07	100.0	100.0	100.0	100.0	98.7	91.0	80.0	49.7	11.0	78.4	155
	10	100.0	100.0	100.0	98.7	93.5	77.4	47.1	16.1	1.9	69.0	155
	13	100.0	100.0	98.7	94.2	80.0	54.2	21.9	11.0	2.6	62.0	155
	16	100.0	100.0	99.4	94.2	78.7	58.1	27.1	14.8	5.8	63.4	155
	19	100.0	100.0	100.0	98.7	89.7	75.5	49.7	25.2	5.2	70.0	155
	22	100.0	100.0	100.0	100.0	97.4	91.0	74.2	41.3	7.7	76.7	155
TOTALS		100.0	100.0	99.8	98.2	92.1	79.7	49.4	31.7	7.3	72.8	1260

# RELATIVE HUMIDITY

5706 RELATIVE HUMIDITY JAN 68

PRINTED BY THE STANDARD REQUISITE COMPANY, U. S. A.

13750 STATION

NORFOLK, VIRGINIA

73-77

STATION NAME

PERIOD

AUG MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	01	100.0	100.0	100.0	100.0	99.4	98.1	91.0	67.7	18.7	83.0	155
	04	100.0	100.0	100.0	100.0	98.7	97.4	92.9	74.8	25.8	84.4	155
	07	100.0	100.0	100.0	100.0	99.4	98.1	91.6	64.5	21.3	82.9	155
	10	100.0	100.0	100.0	99.4	98.1	87.1	57.4	29.7	2.6	72.7	155
	13	100.0	100.0	100.0	98.1	89.0	61.9	33.5	11.0	1.9	65.4	155
	16	100.0	100.0	100.0	98.1	89.0	66.5	40.0	18.7	5.2	67.1	155
	19	100.0	100.0	100.0	100.0	97.4	89.7	61.3	27.7	7.7	74.1	155
	22	100.0	100.0	100.0	99.4	99.4	97.4	82.6	49.7	9.0	79.3	155
TOTALS		100.0	100.0	100.0	99.4	96.3	87.0	68.8	43.0	11.5	76.1	1240

## RELATIVE HUMIDITY

13750	NORFOLK, VIRGINIA	STATION NAME
		STATION

STATION	STATION NAME
---------	--------------

73-77

PERIOD

**MONTH**  
**SEP**

**MONTH**

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	01	100.0	100.0	100.0	100.0	98.0	90.0	78.0	57.3	14.0	79.2	150
	04	100.0	100.0	100.0	100.0	96.0	89.3	81.3	66.0	15.3	80.9	150
	07	100.0	100.0	100.0	100.0	96.7	90.0	81.3	62.7	19.3	81.2	150
	10	100.0	100.0	100.0	98.7	92.0	77.3	54.7	21.3	4.0	70.1	150
	13	100.0	100.0	98.7	95.3	82.7	58.0	34.7	16.7	6.7	64.7	150
	16	100.0	100.0	98.0	96.0	80.7	61.3	39.3	18.0	6.0	65.2	150
	19	100.0	100.0	100.0	98.0	94.0	78.0	62.0	30.7	8.0	72.6	150
	22	100.0	100.0	100.0	100.0	96.0	88.7	74.0	46.7	12.0	77.2	150
TOTALS		100.0	100.0	99.6	98.5	92.0	79.1	62.2	39.9	10.7	73.9	1200



# RELATIVE HUMIDITY

5706 RELATIVE HUMIDITY JAN 68

13750 STATION

NORFOLK, VIRGINIA

73-77

PERIOD

OCT MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	01	100.0	100.0	100.0	98.1	85.8	74.2	58.1	34.8	11.0	72.4	155
	04	100.0	100.0	99.4	98.7	87.7	77.4	63.2	39.4	12.9	73.5	155
	07	100.0	100.0	100.0	98.7	92.3	78.7	63.2	45.8	16.8	75.5	155
	10	100.0	100.0	99.4	94.2	78.7	55.5	36.8	20.0	5.2	64.3	155
	13	100.0	100.0	97.4	83.9	64.5	41.9	25.2	14.2	4.5	58.5	155
	16	100.0	99.4	95.5	85.8	64.5	41.3	29.0	16.8	3.9	59.1	155
	19	100.0	100.0	100.0	94.2	82.6	63.2	43.2	22.6	5.2	66.5	155
	22	100.0	100.0	100.0	96.1	86.5	74.2	49.0	29.7	7.1	69.9	155
TOTALS		100.0	99.9	99.0	93.7	80.3	63.3	46.0	27.9	8.3	67.5	1240

# RELATIVE HUMIDITY

5706 RELATIVE HUMIDITY JAN 68

PRINTED BY THE STANDARD REGISTER COMPANY, U. S. A.

13750  
STATION

NORFOLK, VIRGINIA  
STATION NAME

73-77

PERIOD

NOV  
MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	01	100.0	100.0	99.3	94.0	82.7	64.0	46.0	24.7	7.3	67.6	150
	04	100.0	100.0	99.3	96.0	88.0	66.0	46.7	28.7	10.0	68.9	150
	07	100.0	100.0	99.3	97.3	86.7	67.3	52.7	31.3	10.7	70.6	150
	10	100.0	100.0	98.7	90.7	65.3	48.7	32.7	22.0	8.0	62.2	150
	13	100.0	99.3	90.7	68.7	52.0	36.0	24.0	16.0	8.7	55.1	150
	16	100.0	100.0	92.0	68.0	53.3	38.0	24.7	14.7	6.0	55.3	150
	19	100.0	100.0	98.0	87.3	69.3	52.7	36.0	18.7	8.0	63.0	150
	22	100.0	100.0	99.3	93.3	80.0	59.3	42.7	20.7	9.3	65.8	150
TOTALS		100.0	99.9	97.1	86.9	72.2	54.0	38.2	22.1	8.5	63.6	1200

NAVWEASERVCOM





# RELATIVE HUMIDITY

5706 RELATIVE HUMIDITY JAN 68

PRINTED BY THE STANDARD RECORDING COMPANY, U. S. A.

13750 STATION

NORFOLK, VIRGINIA

73-77

PERIOD

ALL MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	98.2	89.6	75.0	59.0	43.7	28.3	13.7	66.4	1237
FEB		100.0	100.0	94.3	81.9	63.3	43.6	29.1	17.5	7.2	59.3	1128
MAR		100.0	99.8	96.3	86.9	73.1	60.2	43.8	27.8	12.7	66.0	1240
APR		100.0	99.8	94.1	80.4	60.9	44.6	30.4	14.3	3.1	58.5	1200
MAY		100.0	100.0	98.0	91.9	81.2	66.3	49.4	30.3	9.9	68.4	1240
JUN		100.0	100.0	99.8	98.0	92.0	79.5	61.1	34.7	6.9	72.8	1200
JUL		100.0	100.0	99.8	98.2	92.1	79.7	59.4	35.7	7.3	72.8	1240
AUG		100.0	100.0	100.0	99.4	96.3	87.0	68.8	43.0	11.5	76.1	1240
SEP		100.0	100.0	99.6	98.5	92.0	79.1	63.2	39.9	10.7	73.9	1200
OCT		100.0	99.9	99.0	93.7	80.3	63.3	46.0	27.9	8.3	67.5	1240
NOV		100.0	99.9	97.1	86.9	72.2	54.0	38.2	22.1	8.5	63.6	1200
DEC		100.0	100.0	98.7	89.1	77.3	61.7	45.3	29.8	15.1	67.4	1240
TOTALS		100.0	100.0	97.9	91.2	79.6	64.8	48.2	29.3	9.6	67.7	14603

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

JAN 1973-DEC 1977  
YEARS

JANUARY  
MONTH

ALL  
HOURS (L.S.T.)

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 TO 76											
67 TO 71											
62 TO 66											
57 TO 61											
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	18.2	11.3	5.5	3.7	9.9	14.4	17.7	9.3	10.1	124.0	100.0

## PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VS.

## WIND DIRECTION

13720  
STATION

NORFOLK, VIRGINIA

STATION NAME

JAN 1973-DEC 1977

YEARS

FEBRUARY

MONTH

ALL

HOURS (L.S.T.)

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81					100.0					1	.1
72 TO 76	7.7				14.3	71.4	14.3			7	.6
67 TO 71					30.8	38.5	23.1			13	1.2
62 TO 66					37.9	37.9	17.2		3.4	29	2.6
57 TO 61	1.5	1.5			28.8	45.5	16.7	1.5	4.5	66	5.9
52 TO 56	1.9	1.9	2.8		22.6	39.6	23.6	2.8	1.9	106	9.4
47 TO 51	3.2	1.1	2.1		34.0	20.2	19.1	5.3	5.3	94	8.3
42 TO 46	9.2	10.1	16.5	5.5	12.8	27.5	9.2	4.6	4.6	109	9.7
37 TO 41	14.5	14.0	14.0	6.7	7.8	17.9	12.3	8.9	3.9	179	15.9
32 TO 36	22.9	20.0	4.8	4.8	8.1	11.0	9.5	10.0	9.0	210	18.6
27 TO 31	30.8	13.0	4.1	3.0	8.3	7.1	8.3	10.7	14.8	169	15.0
22 TO 26	29.8	12.8	1.1	1.1	11.7	4.3	11.7	21.3	6.4	94	8.3
17 TO 21	43.6	5.1		2.6	5.1		5.1	17.9	20.5	39	3.5
12 TO 16	66.7							44.4	55.6	9	.8
7 TO 11									39.3	3	.3
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LVR											
TOTALS	16.8	10.5	5.9	4.2	14.5	18.9	12.6	8.9	7.7	1128	100.0



PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

JAN 1973-DEC 1977

YEARS

MARCH

MONTH

ALL

HOURS (L.S.T.)

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 TO 76											
67 TO 71	1.6	3.2	3.2		12.5	37.5	37.5	12.5		0	.6
62 TO 66	3.2	3.2	4.0		20.5	28.6	64.3	7.1		14	1.1
57 TO 61	4.6	8.5	7.7		19.0	56.8	13.6	6.8	2.3	44	3.5
52 TO 56	11.0	8.2	12.6	1.6	27.8	57.1	14.3	3.2	1.6	63	5.1
47 TO 51	14.6	20.6	15.0	10.8	27.7	39.7	14.3	4.0	2.4	126	10.2
42 TO 46	18.6	20.8	18.1	7.7	18.1	15.4	14.6	4.6	6.2	130	10.5
37 TO 41	35.0	13.0	10.6	7.7	12.6	9.9	12.6	9.9	9.9	182	14.7
32 TO 36	22.2	9.5	6.3	5.5	12.6	6.3	7.5	8.3	9.5	253	20.4
27 TO 31	16.7	8.3	16.7	5.9	6.8	5.0	10.0	10.0	5.0	221	17.8
22 TO 26	100.0			3.3	3.3	8.1	9.8	10.6	6.5	123	9.9
17 TO 21				4.8	11.1	3.2	9.5	17.5	15.9	63	5.1
12 TO 16				8.3			25.0	8.3	16.7	12	1.0
7 TO 11										1	.1
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LVR											
TOTALS	13.6	12.2	11.0	5.2	14.6	15.7	12.0	8.4	6.9	1240	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

STATION 13730 NORFOLK, VIRGINIA JAN 1973-DEC 1977 MONTH APRIL ALL HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91	28.6	4.2	12.5	4.2	8.3	71.4	25.0	4.2	4.2	7	.6
82 TO 86	8.3	1.7	6.9	5.2	12.1	29.2	19.0	3.4	1.7	24	2.0
77 TO 81	3.4	3.1	6.2	6.2	27.8	46.6	17.5	1.0	1.0	58	4.8
72 TO 76	2.1	2.4	6.3	3.1	24.4	35.1	15.0	6.3	2.4	97	8.1
67 TO 71	2.4	11.6	12.5	4.7	18.4	37.8	14.7	6.3	4.2	127	10.6
62 TO 66	6.3	7.9	12.2	9.1	15.2	21.1	15.9	6.7	4.3	190	15.8
57 TO 61	12.8	14.1	10.3	13.1	12.7	8.5	16.9	7.0	6.6	164	13.7
52 TO 56	10.8	13.6	9.3	7.9	10.7	7.9	10.0	14.3	9.3	213	17.8
47 TO 51	17.1	7.1	7.9	2.4	7.9	5.5	8.7	24.4	8.7	140	11.7
42 TO 46	27.6				11.1	11.1	4.4	22.2	22.2	127	10.6
37 TO 41	28.9							62.5	25.0	45	3.8
32 TO 36	12.5									6	.7
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	11.7	8.4	9.2	6.7	15.3	19.0	14.2	9.7	5.9	1200	100.0

# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

## WIND DIRECTION

13730

NORFOLK, VIRGINIA

STATION NAME

JAN 1973-DEC 1977

YEARS

MAY

MONTH

ALL

HOURS (L.S.T.)

## WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86	7.7	9.6	7.7	10.0	10.0	10.0	10.0			1	.1
77 TO 81	6.9	5.0	9.9	1.9	26.9	19.2	23.1	3.8		10	.8
72 TO 76	2.6	7.4	13.8	4.0	16.8	32.7	20.8	1.0	3.0	52	4.2
67 TO 71	6.7	14.2	18.7	9.0	22.2	24.9	12.7	4.8	2.6	101	8.1
62 TO 66	8.3	15.3	16.0	9.7	16.0	19.8	6.3	3.2	3.4	189	15.2
57 TO 61	12.7	12.7	20.6	11.0	17.3	12.3	5.0	4.7	10.0	266	21.6
52 TO 56	16.7	7.9	21.1	9.1	11.5	9.7	9.1	5.5	9.1	300	24.2
47 TO 51	14.7	5.9	5.9	2.9	11.8	2.9	8.8	29.4	16.7	165	13.3
42 TO 46								33.3	66.7	114	9.2
37 TO 41										34	2.7
32 TO 36										0	.5
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	8.4	11.4	16.0	8.9	16.6	16.9	9.0	5.5	7.3	1240	100.0



# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

WIND DIRECTION

19750  
STATION

NORFOLK, VIRGINIA

STATION NAME

JAN 1973-DEC 1977

YEARS

MONTH

JUNE

ALL

HOURS (L.S.T.)

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96	5.6	5.6	5.6	5.6	5.6	50.0	22.2	5.6		16	1.5
87 TO 91	5.0	1.7	6.7	3.3	8.3	45.0	18.3	5.0	6.7	60	5.0
82 TO 86	4.2	10.8	13.8	6.6	16.2	22.8	21.0	2.4	2.4	167	13.9
77 TO 81	5.3	10.6	13.6	7.2	22.3	25.0	9.1	3.0	3.8	264	22.0
72 TO 76	9.0	6.5	12.8	7.9	19.1	23.2	9.5	3.3	8.7	367	30.6
67 TO 71	13.2	13.2	17.3	9.6	11.2	9.1	8.6	7.1	10.7	197	16.4
62 TO 66	9.8	11.8	13.7	7.8	6.9	3.9	2.0	13.7	30.4	102	8.5
57 TO 61		40.0	36.0			4.0	4.0	8.0	8.0	25	2.1
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	7.8	9.9	14.0	7.4	15.9	20.7	10.8	4.8	8.7	1200	100.0

# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

WIND DIRECTION

JAN 1973-DEC 1977

YEARS

JULY

MONTH

ALL

HOURS (L.S.T.)

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96	2.4	7.3	4.9		9.8	31.7	100.0	12.2		1	.1
87 TO 91	7.1	4.5	7.1	2.7	9.8	42.9	31.7	4.5	2.7	41	3.3
82 TO 86	7.6	12.6	8.4	5.0	18.9	23.5	18.8	2.9	3.4	112	9.0
77 TO 81	10.5	12.3	14.1	5.9	13.3	24.9	17.6	3.8	5.9	234	19.2
72 TO 76	5.5	10.2	9.6	4.7	18.2	22.3	12.4	2.5	14.6	390	31.5
67 TO 71	1.2	3.6	9.6	3.6	15.7	8.4	7.2	6.0	44.6	363	29.3
62 TO 66					27.3				72.7	11	.9
57 TO 61									100.0	1	.1
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	7.2	10.2	10.3	4.7	15.6	24.4	13.2	3.7	10.7	1240	100.0

# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

13720  
STATION

NORFOLK, VIRGINIA

JAN 1973-DEC 1977

AUGUST

ALL

HOURS (L.S.T.)

STATION NAME

YEARS

MONTH

## WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
112 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101	33.3					33.3	33.3			3	12
92 TO 96	2.6		2.6	2.6	5.1	25.6	53.8	5.1	2.6	39	3.1
87 TO 91	6.8	6.8	6.8	3.4	14.8	37.5	19.3	1.1	3.4	88	7.1
82 TO 86	10.7	8.9	16.9	4.9	12.9	24.9	16.4	1.3	3.1	225	18.1
77 TO 81	7.4	8.5	11.9	8.8	15.4	28.6	8.2	2.9	8.2	277	20.4
72 TO 76	7.6	15.3	13.9	4.8	18.1	16.4	5.7	4.0	14.2	353	28.5
67 TO 71	9.4	10.1	19.4	3.6	10.1	10.6	3.6	3.6	29.5	139	11.2
62 TO 66		21.4	21.4	7.1	14.3				35.7	14	1.1
57 TO 61									100.0	2	12
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	8.1	10.4	13.6	5.7	14.7	22.7	10.6	2.9	11.3	1240	100.0

NAVWEASERVCOM



PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

13730  
STATION

NORFOLK, VIRGINIA

STATION NAME

JAN 1973-DEC 1977

YEARS

SEPTEMBER

MONTH

ALL

HOURS (L.S.T.)

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96							100.0			4	.2
87 TO 91		3.3	10.0		16.7	26.7	40.0		3.3	30	2.5
82 TO 86	1.9	13.1	13.1	2.8	19.6	27.1	20.6	.9	.9	107	8.9
77 TO 81	7.4	7.4	13.4	6.9	24.4	21.2	13.4	2.8	3.2	217	18.1
72 TO 76	9.8	8.7	19.8	5.1	20.9	15.9	8.4	4.2	6.1	356	29.6
67 TO 71	16.8	18.1	20.7	7.6	7.2	9.2	3.6	2.0	14.8	304	25.3
62 TO 66	18.5	11.1	5.3	6.7	13.3	6.7	5.9	8.9	23.0	133	11.3
57 TO 61	29.4	14.7	2.9	2.9	5.9			11.8	32.4	34	2.8
52 TO 56	25.0	25.0	8.3			16.7		8.3	16.7	12	1.0
47 TO 51	100.0									1	.1
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	11.8	11.8	15.8	6.1	16.3	14.9	9.5	3.8	10.0	1200	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

13750  
STATION

NORFOLK, VIRGINIA

JAN 1973-DEC 1977  
YEARS

OCTOBER  
MONTH

ALL  
HOURS (L.S.T.)

TEMP.	NINW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WINW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91	33.3						66.7			3	.2
82 TO 86	9.1	3.8	15.4	11.5	14.2	36.4	27.3	9.1		11	.9
77 TO 81	7.7		9.9	11.5	11.5	38.5	11.5			26	2.1
72 TO 76	8.9	11.9	9.9	8.9	21.8	19.8	15.8	1.0	2.0	101	8.1
67 TO 71	12.2	13.8	20.9	6.1	9.7	16.3	9.7	4.6	6.6	196	15.8
62 TO 66	16.6	20.5	11.3	5.0	11.3	11.6	7.1	8.0	8.6	337	27.2
57 TO 61	22.1	21.2	10.4	3.9	7.8	7.8	7.8	8.2	10.8	231	18.6
52 TO 56	21.6	17.0	3.9	.7	13.7	8.5	10.5	7.2	17.0	153	12.3
47 TO 51	16.3	10.5	3.5	3.5	5.8	8.1	17.4	12.8	22.1	86	6.9
42 TO 46	32.4	13.2		1.5	1.5	5.9	13.2	19.1	14.7	68	5.5
37 TO 41	19.2	3.8		7.7	7.7	11.5	3.8	23.1	30.8	29	2.1
32 TO 36	100.0									2	.2
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	17.7	16.4	10.2	4.4	10.6	12.1	10.2	7.9	10.6	1240	100.0

# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

12750  
STATION

NORFOLK, VIRGINIA

STATION NAME

JAN 1973-DEC 1977

YEARS

NOVEMBER

MONTH

ALL

HOURS (L.S.T.)

## WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ESE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81	6.7	6.3	8.3			60.0	33.3			13	1.3
72 TO 76	4.2	4.1	23.3	2.7	25.0	39.6	12.5	4.2		48	4.0
67 TO 71	2.7	7.6	16.6	6.4	20.5	34.2	11.0	1.4		73	6.1
62 TO 66	5.1	10.4	5.2	3.0	20.4	24.8	12.7	2.5	3.8	157	13.1
57 TO 61	11.1	11.4	6.1	3.5	25.2	17.8	19.3	4.4	3.7	135	11.3
52 TO 56	15.8	18.5	8.8	9.4	9.6	24.6	13.2	7.9	7.9	114	9.5
47 TO 51	21.6	20.7	7.4	5.5	3.3	14.1	15.4	7.9	9.7	227	18.9
42 TO 46	20.7	18.8	8.6	1.6	8.3	15.2	15.2	14.3	12.9	217	18.1
37 TO 41	18.8	20.9	4.5	1.5	12.5	10.9	16.4	13.3	16.4	120	10.7
32 TO 36	20.9	43.8	6.3	6.3	1.5	3.0	17.9	25.4	25.4	67	5.6
27 TO 31	43.8	33.3			6.3		12.5		25.0	16	1.3
22 TO 26	33.3						33.3	33.3		3	.3
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	15.5	9.8	7.9	2.2	12.3	18.8	15.3	3.8	9.3	1200	100.0



# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

WIND DIRECTION

13750  
STATION

NORFOLK, VIRGINIA

JAN 1973-DEC 1977

DECEMBER

ALL  
HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 TO 76											
67 TO 71											
62 TO 66											
57 TO 61											
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	13.5	14.5	6.2	3.3	9.0	18.4	13.5	11.3	10.2	124.0	100.0

NAYWEASERVCOM

# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

13750  
STATION

NORFOLK, VIRGINIA

STATION NAME

JAN 1973-DEC 1977

YEARS

ALL  
MONTH

ALL  
HOURS (L.S.T.)

## WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101	25.0					25.0	50.0			4	.0
92 TO 96	3.0	3.0	4.0	2.0	6.9	32.7	39.6	7.9	1.0	101	.7
87 TO 91	6.5	4.5	7.1	2.9	11.3	40.6	20.6	2.9	3.5	310	2.1
82 TO 86	7.0	10.6	12.2	4.7	17.0	24.4	19.2	2.4	2.5	833	5.7
77 TO 81	7.6	8.9	12.4	6.8	17.0	27.6	11.6	3.0	5.1	1470	10.1
72 TO 76	6.9	9.1	12.7	6.0	20.2	22.8	10.4	3.4	8.5	1950	13.3
67 TO 71	9.1	11.1	16.5	6.2	14.0	19.5	8.1	4.2	11.3	1520	10.4
62 TO 66	9.1	12.0	10.7	6.3	18.0	18.7	9.3	5.9	10.0	1548	10.6
57 TO 61	11.2	11.3	9.9	6.6	17.5	17.0	13.9	5.4	7.0	1138	7.8
52 TO 56	11.7	9.5	9.2	7.4	15.4	14.5	15.2	7.2	9.8	1081	7.4
47 TO 51	14.8	16.5	10.5	4.4	9.1	13.5	12.3	8.9	10.0	1166	8.0
42 TO 46	18.4	17.1	10.6	3.0	5.6	11.8	12.1	12.2	9.2	1251	8.6
37 TO 41	22.9	15.5	5.9	2.8	7.0	10.0	13.0	9.8	13.2	940	6.4
32 TO 36	23.3	11.0	3.4	3.0	7.8	8.2	10.6	16.8	16.0	644	4.4
27 TO 31	31.3	6.8	3.0	2.5	6.8	5.8	12.8	17.3	12.0	600	2.7
22 TO 26	31.5	4.1	.5	1.5	5.6	5.1	15.2	23.9	12.7	197	1.3
17 TO 21	18.9	2.7				2.7	21.6	29.7	24.3	37	.3
12 TO 16	28.6					7.1	28.6	28.6	7.1	14	.1
7 TO 11							50.0	50.0		4	.0
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	12.5	11.4	10.5	5.2	13.8	18.1	12.4	7.1	9.1	14608	100.0

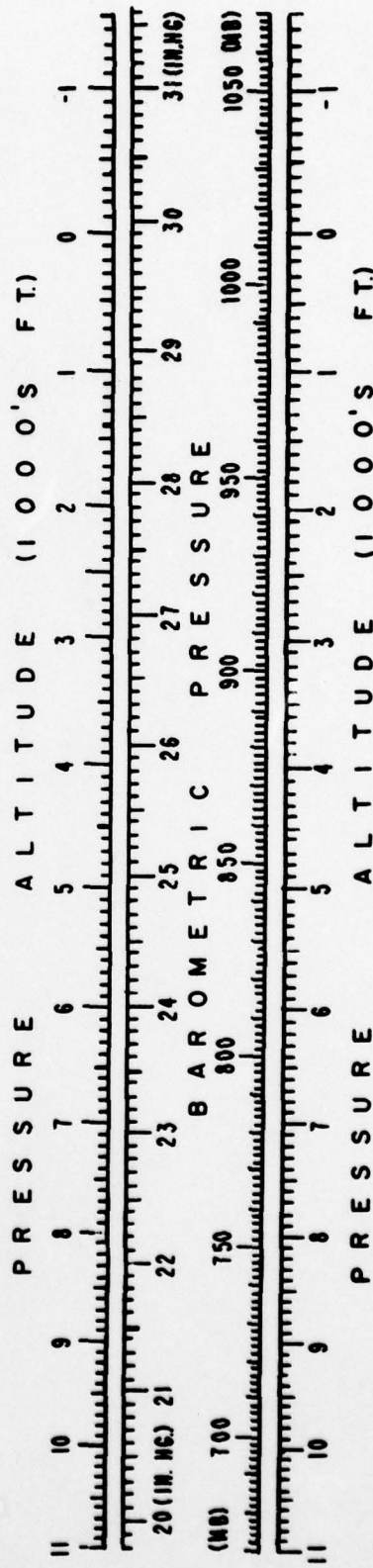
## PART F

## PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.
2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.





# MEANS AND STANDARD DEVIATIONS

5707 MEANS AND STANDARD DEVIATIONS JAN 68

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

13750 NORFOLK, VIRGINIA

73-77

STATION NAME YEARS

HRS.(L.S.T.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	30.082 30.238 155	30.040 30.257 141	30.016 30.227 155	30.010 30.220 150	29.961 30.151 155	29.975 30.154 150	29.991 30.126 155	30.044 30.105 155	30.033 30.142 150	30.075 30.197 155	30.075 30.207 150	30.052 30.273 155	30.029 30.201 1826
04	30.086 30.235 155	30.037 30.242 141	30.005 30.226 155	30.002 30.231 150	29.955 30.152 155	29.966 30.156 150	29.983 30.129 155	30.036 30.107 155	30.022 30.141 150	30.067 30.199 155	30.073 30.208 150	30.050 30.279 155	30.023 30.202 1826
07	30.104 30.238 155	30.062 30.238 141	30.036 30.236 155	30.037 30.242 150	29.986 30.153 155	29.992 30.158 150	30.010 30.129 155	30.064 30.107 155	30.049 30.145 150	30.092 30.205 155	30.097 30.209 150	30.068 30.283 155	30.030 30.205 1826
10	30.137 30.247 155	30.085 30.242 141	30.047 30.255 155	30.043 30.249 150	29.992 30.158 155	30.002 30.161 150	30.020 30.130 155	30.076 30.111 155	30.064 30.150 150	30.112 30.210 155	30.120 30.213 150	30.099 30.286 155	30.066 30.212 1826
13	30.074 30.246 155	30.038 30.247 141	30.002 30.265 155	30.004 30.245 150	29.966 30.159 155	29.984 30.164 150	30.004 30.131 155	30.054 30.114 155	30.032 30.155 150	30.073 30.211 155	30.066 30.213 150	30.041 30.282 155	30.028 30.212 1826
16	30.058 30.246 155	30.002 30.247 141	29.964 30.258 155	29.969 30.230 150	29.932 30.159 155	29.955 30.162 150	29.972 30.135 155	30.023 30.114 155	30.000 30.156 150	30.049 30.211 155	30.046 30.210 150	30.029 30.273 155	30.000 30.209 1826
19	30.085 30.246 155	30.025 30.251 141	29.986 30.246 155	29.986 30.216 150	29.942 30.148 155	29.957 30.157 150	29.972 30.132 155	30.028 30.107 155	30.010 30.151 150	30.071 30.202 155	30.069 30.208 150	30.055 30.270 155	30.015 30.206 1826
22	30.099 30.241 155	30.041 30.251 141	30.013 30.233 155	30.018 30.215 150	29.967 30.144 155	29.985 30.155 150	29.999 30.128 155	30.054 30.102 155	30.035 30.146 150	30.087 30.199 155	30.082 30.204 150	30.060 30.273 155	30.037 30.201 1826
ALL HOURS	30.091 30.243 1240	30.041 30.247 1128	30.009 30.244 1240	30.009 30.232 1200	29.962 30.154 1240	29.977 30.159 1200	29.994 30.131 1240	30.047 30.109 1240	30.030 30.149 1200	30.078 30.205 1240	30.078 30.209 1200	30.057 30.277 1240	30.031 30.207 14608

# MEANS AND STANDARD DEVIATIONS

5707 MEANS AND STANDARD DEVIATIONS JAN 68

SEA LEVEL PRESSURE IN HRS FROM HOURLY OBSERVATIONS

NORFOLK, VIRGINIA

73-77

STATION NAME

YEARS

	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	1019.8 8.065 155	1018.4 8.705 141	1017.6 7.666 155	1017.4 7.477 150	1015.7 5.110 155	1016.2 5.214 150	1016.7 4.270 155	1018.5 3.558 155	1018.1 4.807 150	1019.6 6.667 155	1019.6 7.011 150	1018.8 9.233 155	1018.0 6.810 1826
04	1019.9 7.967 155	1018.2 8.194 141	1017.2 7.656 155	1017.1 7.821 150	1015.5 5.132 155	1015.9 5.277 150	1016.4 4.365 155	1018.3 3.598 155	1017.8 4.781 150	1019.3 6.740 155	1019.5 7.047 150	1018.7 9.439 155	1017.8 6.841 1826
07	1020.6 8.053 155	1019.1 8.061 141	1018.2 7.980 155	1018.3 8.194 150	1016.5 5.204 155	1016.8 5.357 150	1017.4 4.365 155	1019.2 3.641 155	1018.7 4.885 150	1020.2 6.942 155	1020.3 7.055 150	1019.3 9.561 155	1018.7 6.937 1826
10	1021.7 8.339 155	1019.9 8.186 141	1018.6 8.636 155	1018.5 8.451 150	1016.8 5.344 155	1017.1 5.446 150	1017.7 4.371 155	1019.6 3.743 155	1019.2 5.063 150	1020.8 7.120 155	1021.1 7.200 150	1020.4 9.669 155	1019.3 7.183 1826
13	1019.5 8.315 155	1018.3 8.364 141	1017.1 8.954 155	1017.2 8.305 150	1015.9 5.397 155	1016.5 5.575 150	1017.1 4.414 155	1018.9 3.854 155	1018.1 5.249 150	1019.5 7.134 155	1019.2 7.220 150	1018.4 9.534 155	1018.0 7.164 1826
16	1019.0 8.341 155	1017.1 8.361 141	1015.8 8.720 155	1016.0 7.793 150	1014.7 5.382 155	1015.5 5.504 150	1016.1 4.573 155	1017.8 3.832 155	1017.0 5.286 150	1018.7 7.115 155	1018.6 7.119 150	1018.0 9.247 155	1017.0 7.090 1826
19	1019.9 8.313 155	1017.8 8.519 141	1016.6 8.334 155	1016.5 7.308 150	1015.0 5.014 155	1015.6 5.300 150	1016.1 4.466 155	1018.0 3.622 155	1017.4 5.140 150	1019.4 6.832 155	1019.3 7.033 150	1018.9 9.154 155	1017.5 6.960 1826
22	1020.4 8.144 155	1018.4 8.519 141	1017.4 7.889 155	1017.6 7.258 150	1015.9 4.886 155	1016.5 5.234 150	1017.0 4.329 155	1018.9 3.448 155	1018.2 4.962 150	1020.0 6.712 155	1019.8 6.898 150	1019.1 9.257 155	1018.3 6.806 1826
ALL HOURS	1020.1 8.205 1240	1018.4 8.375 1128	1017.3 8.262 1240	1017.3 7.853 1200	1015.7 5.212 1240	1016.2 5.374 1200	1016.8 4.417 1240	1018.6 3.699 1240	1018.1 5.052 1200	1019.7 6.917 1240	1019.7 7.088 1200	1018.9 9.385 1240	1018.1 7.003 14608